



# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

## PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-07 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,101	0	2,203	0	3,304	0	4,406	0	5,507	0		0		0		0	
1/4	23	1/4	1,124	1/4	2,226	1/4	3,327	1/4	4,429	1/4	5,530	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46	1/2	1,147	1/2	2,249	1/2	3,350	1/2	4,452	1/2	5,553	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69	3/4	1,170	3/4	2,272	3/4	3,373	3/4	4,475	3/4	5,576	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	92	1	1,193	1	2,295	1	3,396	1	4,498	1	5,599	1	1	1	1	1	1	1	1
1/4	115	1/4	1,216	1/4	2,318	1/4	3,419	1/4	4,521	1/4	5,622	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	138	1/2	1,239	1/2	2,341	1/2	3,442	1/2	4,544	1/2	5,644	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	161	3/4	1,262	3/4	2,364	3/4	3,465	3/4	4,567	3/4	5,667	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	184	2	1,285	2	2,387	2	3,488	2	4,589	2	5,690	2	2	2	2	2	2	2	2
1/4	207	1/4	1,308	1/4	2,409	1/4	3,511	1/4	4,612	1/4	5,712	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	229	1/2	1,331	1/2	2,432	1/2	3,534	1/2	4,635	1/2	5,734	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	252	3/4	1,354	3/4	2,455	3/4	3,557	3/4	4,658	3/4	5,756	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	275	3	1,377	3	2,478	3	3,580	3	4,681	3	5,778	3	3	3	3	3	3	3	3
1/4	298	1/4	1,400	1/4	2,501	1/4	3,603	1/4	4,704	1/4	5,799	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	321	1/2	1,423	1/2	2,524	1/2	3,626	1/2	4,727	1/2	5,821	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	344	3/4	1,446	3/4	2,547	3/4	3,649	3/4	4,750	3/4	5,843	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	367	4	1,469	4	2,570	4	3,672	4	4,773	4	5,865	4	4	4	4	4	4	4	4
1/4	390	1/4	1,492	1/4	2,593	1/4	3,695	1/4	4,796	1/4	5,887	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	413	1/2	1,515	1/2	2,616	1/2	3,717	1/2	4,819	1/2	5,909	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	436	3/4	1,538	3/4	2,639	3/4	3,740	3/4	4,842	3/4	5,931	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	459	5	1,560	5	2,662	5	3,763	5	4,865	5	5,953	5	5	5	5	5	5	5	5
1/4	482	1/4	1,583	1/4	2,685	1/4	3,786	1/4	4,888	1/4	5,975	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	505	1/2	1,606	1/2	2,708	1/2	3,809	1/2	4,911	1/2	6,000	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	528	3/4	1,629	3/4	2,731	3/4	3,832	3/4	4,934	3/4	6,022	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	551	6	1,652	6	2,754	6	3,855	6	4,957	6	6,044	6	6	6	6	6	6	6	6
1/4	574	1/4	1,675	1/4	2,777	1/4	3,878	1/4	4,980	1/4	6,066	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	597	1/2	1,698	1/2	2,800	1/2	3,901	1/2	5,003	1/2	6,088	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	620	3/4	1,721	3/4	2,823	3/4	3,924	3/4	5,026	3/4	6,110	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	643	7	1,744	7	2,845	7	3,947	7	5,048	7	6,132	7	7	7	7	7	7	7	7
1/4	665	1/4	1,767	1/4	2,868	1/4	3,970	1/4	5,071	1/4	6,154	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	688	1/2	1,790	1/2	2,891	1/2	3,993	1/2	5,094	1/2	6,176	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	711	3/4	1,813	3/4	2,914	3/4	4,016	3/4	5,117	3/4	6,198	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	734	8	1,836	8	2,937	8	4,039	8	5,140	8	6,220	8	8	8	8	8	8	8	8
1/4	757	1/4	1,859	1/4	2,960	1/4	4,062	1/4	5,163	1/4	6,242	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	780	1/2	1,882	1/2	2,983	1/2	4,085	1/2	5,186	1/2	6,264	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	803	3/4	1,905	3/4	3,006	3/4	4,108	3/4	5,209	3/4	6,286	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	826	9	1,928	9	3,029	9	4,131	9	5,232	9	6,308	9	9	9	9	9	9	9	9
1/4	849	1/4	1,951	1/4	3,052	1/4	4,153	1/4	5,255	1/4	6,330	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	872	1/2	1,973	1/2	3,075	1/2	4,176	1/2	5,278	1/2	6,352	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	895	3/4	1,996	3/4	3,098	3/4	4,199	3/4	5,301	3/4	6,374	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	918	10	2,019	10	3,121	10	4,222	10	5,324	10	6,396	10	10	10	10	10	10	10	10
1/4	941	1/4	2,042	1/4	3,144	1/4	4,245	1/4	5,347	1/4	6,418	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	964	1/2	2,065	1/2	3,167	1/2	4,268	1/2	5,370	1/2	6,440	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	987	3/4	2,088	3/4	3,190	3/4	4,291	3/4	5,393	3/4	6,462	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,010	11	2,111	11	3,213	11	4,314	11	5,416	11	6,484	11	11	11	11	11	11	11	11
1/4	1,033	1/4	2,134	1/4	3,236	1/4	4,337	1/4	5,439	1/4	6,506	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,056	1/2	2,157	1/2	3,259	1/2	4,360	1/2	5,461	1/2	6,528	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,079	3/4	2,180	3/4	3,281	3/4	4,383	3/4	5,484	3/4	6,550	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO 2" DIAMETER "HERMETIC" VALVE.

STRAPPED: 07/22/2020 CL  
 CALCULATED: 07/23/2020 CL  
 PRINTED: 07/23/2020 JS

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 07/2020

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the

# STBD SLOP INNAGE TABLE

## BARGE "FMT 3312"

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-07 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,101	0	2,203	0	3,304	0	4,406	0	5,507	0		0		0		0	
1/4	23	1/4	1,124	1/4	2,226	1/4	3,327	1/4	4,429	1/4	5,530	1/4		1/4		1/4		1/4	
1/2	46	1/2	1,147	1/2	2,249	1/2	3,350	1/2	4,452	1/2	5,553	1/2		1/2		1/2		1/2	
3/4	69	3/4	1,170	3/4	2,272	3/4	3,373	3/4	4,475	3/4		3/4		3/4		3/4		3/4	
1	92	1	1,193	1	2,295	1	3,396	1	4,498	1		1		1		1		1	
1/4	115	1/4	1,216	1/4	2,318	1/4	3,419	1/4	4,521	1/4		1/4		1/4		1/4		1/4	
1/2	138	1/2	1,239	1/2	2,341	1/2	3,442	1/2	4,544	1/2		1/2		1/2		1/2		1/2	
3/4	161	3/4	1,262	3/4	2,364	3/4	3,465	3/4	4,567	3/4		3/4		3/4		3/4		3/4	
2	184	2	1,285	2	2,387	2	3,488	2	4,589	2		2		2		2		2	
1/4	207	1/4	1,308	1/4	2,409	1/4	3,511	1/4	4,612	1/4		1/4		1/4		1/4		1/4	
1/2	229	1/2	1,331	1/2	2,432	1/2	3,534	1/2	4,635	1/2		1/2		1/2		1/2		1/2	
3/4	252	3/4	1,354	3/4	2,455	3/4	3,557	3/4	4,658	3/4		3/4		3/4		3/4		3/4	
3	275	3	1,377	3	2,478	3	3,580	3	4,681	3		3		3		3		3	
1/4	298	1/4	1,400	1/4	2,501	1/4	3,603	1/4	4,704	1/4		1/4		1/4		1/4		1/4	
1/2	321	1/2	1,423	1/2	2,524	1/2	3,626	1/2	4,727	1/2		1/2		1/2		1/2		1/2	
3/4	344	3/4	1,446	3/4	2,547	3/4	3,649	3/4	4,750	3/4		3/4		3/4		3/4		3/4	
4	367	4	1,469	4	2,570	4	3,672	4	4,773	4		4		4		4		4	
1/4	390	1/4	1,492	1/4	2,593	1/4	3,695	1/4	4,796	1/4		1/4		1/4		1/4		1/4	
1/2	413	1/2	1,515	1/2	2,616	1/2	3,717	1/2	4,819	1/2		1/2		1/2		1/2		1/2	
3/4	436	3/4	1,537	3/4	2,639	3/4	3,740	3/4	4,842	3/4		3/4		3/4		3/4		3/4	
5	459	5	1,560	5	2,662	5	3,763	5	4,865	5		5		5		5		5	
1/4	482	1/4	1,583	1/4	2,685	1/4	3,786	1/4	4,888	1/4		1/4		1/4		1/4		1/4	
1/2	505	1/2	1,606	1/2	2,708	1/2	3,809	1/2	4,911	1/2		1/2		1/2		1/2		1/2	
3/4	528	3/4	1,629	3/4	2,731	3/4	3,832	3/4	4,934	3/4		3/4		3/4		3/4		3/4	
6	551	6	1,652	6	2,754	6	3,855	6	4,957	6		6		6		6		6	
1/4	574	1/4	1,675	1/4	2,777	1/4	3,878	1/4	4,980	1/4		1/4		1/4		1/4		1/4	
1/2	597	1/2	1,698	1/2	2,800	1/2	3,901	1/2	5,003	1/2		1/2		1/2		1/2		1/2	
3/4	620	3/4	1,721	3/4	2,823	3/4	3,924	3/4	5,025	3/4		3/4		3/4		3/4		3/4	
7	643	7	1,744	7	2,845	7	3,947	7	5,048	7		7		7		7		7	
1/4	665	1/4	1,767	1/4	2,868	1/4	3,970	1/4	5,071	1/4		1/4		1/4		1/4		1/4	
1/2	688	1/2	1,790	1/2	2,891	1/2	3,993	1/2	5,094	1/2		1/2		1/2		1/2		1/2	
3/4	711	3/4	1,813	3/4	2,914	3/4	4,016	3/4	5,117	3/4		3/4		3/4		3/4		3/4	
8	734	8	1,836	8	2,937	8	4,039	8	5,140	8		8		8		8		8	
1/4	757	1/4	1,859	1/4	2,960	1/4	4,062	1/4	5,163	1/4		1/4		1/4		1/4		1/4	
1/2	780	1/2	1,882	1/2	2,983	1/2	4,085	1/2	5,186	1/2		1/2		1/2		1/2		1/2	
3/4	803	3/4	1,905	3/4	3,006	3/4	4,108	3/4	5,209	3/4		3/4		3/4		3/4		3/4	
9	826	9	1,928	9	3,029	9	4,131	9	5,232	9		9		9		9		9	
1/4	849	1/4	1,951	1/4	3,052	1/4	4,153	1/4	5,255	1/4		1/4		1/4		1/4		1/4	
1/2	872	1/2	1,973	1/2	3,075	1/2	4,176	1/2	5,278	1/2		1/2		1/2		1/2		1/2	
3/4	895	3/4	1,996	3/4	3,098	3/4	4,199	3/4	5,301	3/4		3/4		3/4		3/4		3/4	
10	918	10	2,019	10	3,121	10	4,222	10	5,324	10		10		10		10		10	
1/4	941	1/4	2,042	1/4	3,144	1/4	4,245	1/4	5,347	1/4		1/4		1/4		1/4		1/4	
1/2	964	1/2	2,065	1/2	3,167	1/2	4,268	1/2	5,370	1/2		1/2		1/2		1/2		1/2	
3/4	987	3/4	2,088	3/4	3,190	3/4	4,291	3/4	5,393	3/4		3/4		3/4		3/4		3/4	
11	1,010	11	2,111	11	3,213	11	4,314	11	5,416	11		11		11		11		11	
1/4	1,033	1/4	2,134	1/4	3,236	1/4	4,337	1/4	5,439	1/4		1/4		1/4		1/4		1/4	
1/2	1,056	1/2	2,157	1/2	3,259	1/2	4,360	1/2	5,461	1/2		1/2		1/2		1/2		1/2	
3/4	1,079	3/4	2,180	3/4	3,281	3/4	4,383	3/4	5,484	3/4		3/4		3/4		3/4		3/4	

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## FUEL TANK INNAGE TABLE

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GAUGE HEIGHT 4'-06 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	101	0	259	0	416	0	517	0		0		0		0		0	
1/4	1	1/4	104	1/4	262	1/4	419	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	107	1/2	265	1/2	422	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	110	3/4	269	3/4	425	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	113	1	272	1	428	1	1	1	1	1	1	1	1	1	1	1	1
1/4	4	1/4	116	1/4	276	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	279	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	282	3/4	436	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	286	2	439	2	2	2	2	2	2	2	2	2	2	2	2
1/4	9	1/4	129	1/4	289	1/4	442	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	132	1/2	293	1/2	444	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	135	3/4	296	3/4	447	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	138	3	300	3	450	3	3	3	3	3	3	3	3	3	3	3	3
1/4	15	1/4	141	1/4	303	1/4	453	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	306	1/2	455	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	148	3/4	310	3/4	458	3/4		3/4		3/4		3/4		3/4		3/4	
4	21	4	151	4	313	4	460	4	4	4	4	4	4	4	4	4	4	4	4
1/4	23	1/4	154	1/4	316	1/4	463	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	25	1/2	157	1/2	320	1/2	465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	27	3/4	161	3/4	323	3/4	468	3/4		3/4		3/4		3/4		3/4		3/4	
5	29	5	164	5	327	5	470	5	5	5	5	5	5	5	5	5	5	5	5
1/4	31	1/4	167	1/4	330	1/4	473	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	170	1/2	333	1/2	475	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	174	3/4	337	3/4	477	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	177	6	340	6	480	6	6	6	6	6	6	6	6	6	6	6	6
1/4	40	1/4	180	1/4	343	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	184	1/2	347	1/2	484	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	187	3/4	350	3/4	486	3/4		3/4		3/4		3/4		3/4		3/4	
7	47	7	190	7	353	7	488	7	7	7	7	7	7	7	7	7	7	7	7
1/4	49	1/4	194	1/4	356	1/4	490	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	52	1/2	197	1/2	360	1/2	492	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	201	3/4	363	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
8	57	8	204	8	366	8	496	8	8	8	8	8	8	8	8	8	8	8	8
1/4	59	1/4	207	1/4	369	1/4	498	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	211	1/2	373	1/2	500	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	214	3/4	376	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	217	9	379	9	504	9	9	9	9	9	9	9	9	9	9	9	9
1/4	70	1/4	221	1/4	382	1/4	505	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	73	1/2	224	1/2	385	1/2	507	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	228	3/4	388	3/4	508	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	231	10	392	10	510	10	10	10	10	10	10	10	10	10	10	10	10
1/4	81	1/4	235	1/4	395	1/4	511	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	84	1/2	238	1/2	398	1/2	512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	87	3/4	241	3/4	401	3/4	513	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	245	11	404	11	514	11	11	11	11	11	11	11	11	11	11	11	11
1/4	92	1/4	248	1/4	407	1/4	515	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	252	1/2	410	1/2	516	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	255	3/4	413	3/4	516	3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" STANDPIPE

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the

BARGE "FMT 3312"

INNAGE (HERMETIC)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 7'-00"  
 DIFF. = 5'-00" (DOWN BY STERN)

THE CORRECTION FOR 5'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

July 22, 2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

## 1 PORT

## INNAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.67	0	291.31	0	626.37	0	967.87	0	1,310.34	0	1,653.64	0	1,996.94	0	2,340.24	0	2,683.54	0	3,026.81
1/4	17.59	1/4	297.92	1/4	633.53	1/4	974.96	1/4	1,317.49	1/4	1,660.79	1/4	2,004.09	1/4	2,347.39	1/4	2,690.69	1/4	3,033.96
1/2	20.52	1/2	304.53	1/2	640.68	1/2	982.05	1/2	1,324.64	1/2	1,667.95	1/2	2,011.25	1/2	2,354.55	1/2	2,697.84	1/2	3,041.11
3/4	23.44	3/4	311.14	3/4	647.83	3/4	989.14	3/4	1,331.80	3/4	1,675.10	3/4	2,018.40	3/4	2,361.70	3/4	2,704.99	3/4	3,048.26
1	26.37	1	317.75	1	654.98	1	996.24	1	1,338.95	1	1,682.25	1	2,025.55	1	2,368.85	1	2,712.15	1	3,055.41
1/4	31.16	1/4	324.44	1/4	662.13	1/4	1,003.33	1/4	1,346.10	1/4	1,689.40	1/4	2,032.70	1/4	2,376.00	1/4	2,719.30	1/4	3,062.56
1/2	35.95	1/2	331.13	1/2	669.28	1/2	1,010.42	1/2	1,353.25	1/2	1,696.55	1/2	2,039.85	1/2	2,383.16	1/2	2,726.45	1/2	3,069.71
3/4	40.75	3/4	337.83	3/4	676.44	3/4	1,017.51	3/4	1,360.41	3/4	1,703.71	3/4	2,047.01	3/4	2,390.31	3/4	2,733.60	3/4	3,076.86
2	45.54	2	344.52	2	683.59	2	1,024.60	2	1,367.56	2	1,710.86	2	2,054.16	2	2,397.46	2	2,740.75	2	3,084.01
1/4	51.28	1/4	351.29	1/4	690.74	1/4	1,031.70	1/4	1,374.71	1/4	1,718.01	1/4	2,061.31	1/4	2,404.61	1/4	2,747.90	1/4	3,091.16
1/2	57.02	1/2	358.07	1/2	697.89	1/2	1,038.80	1/2	1,381.86	1/2	1,725.16	1/2	2,068.46	1/2	2,411.76	1/2	2,755.06	1/2	3,098.31
3/4	62.75	3/4	364.85	3/4	705.04	3/4	1,045.90	3/4	1,389.01	3/4	1,732.31	3/4	2,075.62	3/4	2,418.92	3/4	2,762.21	3/4	3,105.46
3	68.49	3	371.62	3	712.20	3	1,053.00	3	1,396.17	3	1,739.47	3	2,082.77	3	2,426.07	3	2,769.36	3	3,112.61
1/4	74.33	1/4	378.48	1/4	719.35	1/4	1,060.12	1/4	1,403.32	1/4	1,746.62	1/4	2,089.92	1/4	2,433.22	1/4	2,776.51	1/4	3,119.75
1/2	80.18	1/2	385.34	1/2	726.50	1/2	1,067.24	1/2	1,410.47	1/2	1,753.77	1/2	2,097.07	1/2	2,440.37	1/2	2,783.66	1/2	3,126.90
3/4	86.03	3/4	392.20	3/4	733.65	3/4	1,074.36	3/4	1,417.62	3/4	1,760.92	3/4	2,104.22	3/4	2,447.52	3/4	2,790.81	3/4	3,134.05
4	91.87	4	399.06	4	740.80	4	1,081.47	4	1,424.77	4	1,768.07	4	2,111.38	4	2,454.68	4	2,797.97	4	3,141.20
1/4	97.81	1/4	406.00	1/4	747.92	1/4	1,088.63	1/4	1,431.93	1/4	1,775.23	1/4	2,118.53	1/4	2,461.83	1/4	2,805.12	1/4	3,148.35
1/2	103.75	1/2	412.95	1/2	755.04	1/2	1,095.78	1/2	1,439.08	1/2	1,782.38	1/2	2,125.68	1/2	2,468.98	1/2	2,812.27	1/2	3,155.50
3/4	109.69	3/4	419.89	3/4	762.16	3/4	1,102.93	3/4	1,446.23	3/4	1,789.53	3/4	2,132.83	3/4	2,476.13	3/4	2,819.42	3/4	3,162.65
5	115.63	5	426.83	5	769.28	5	1,110.08	5	1,453.38	5	1,796.68	5	2,139.98	5	2,483.28	5	2,826.57	5	3,169.80
1/4	121.65	1/4	433.85	1/4	776.37	1/4	1,117.23	1/4	1,460.53	1/4	1,803.84	1/4	2,147.14	1/4	2,490.44	1/4	2,833.72	1/4	3,176.95
1/2	127.68	1/2	440.87	1/2	783.47	1/2	1,124.39	1/2	1,467.69	1/2	1,810.99	1/2	2,154.29	1/2	2,497.59	1/2	2,840.87	1/2	3,184.10
3/4	133.70	3/4	447.90	3/4	790.57	3/4	1,131.54	3/4	1,474.84	3/4	1,818.14	3/4	2,161.44	3/4	2,504.74	3/4	2,848.03	3/4	3,191.25
6	139.72	6	454.92	6	797.67	6	1,138.69	6	1,481.99	6	1,825.29	6	2,168.59	6	2,511.89	6	2,855.18	6	3,198.40
1/4	145.83	1/4	462.02	1/4	804.76	1/4	1,145.84	1/4	1,489.14	1/4	1,832.44	1/4	2,175.74	1/4	2,519.05	1/4	2,862.33	1/4	3,205.55
1/2	151.94	1/2	469.13	1/2	811.86	1/2	1,152.99	1/2	1,496.30	1/2	1,839.60	1/2	2,182.90	1/2	2,526.20	1/2	2,869.48	1/2	3,212.70
3/4	158.05	3/4	476.23	3/4	818.95	3/4	1,160.15	3/4	1,503.45	3/4	1,846.75	3/4	2,190.05	3/4	2,533.35	3/4	2,876.63	3/4	3,219.85
7	164.15	7	483.34	7	826.04	7	1,167.30	7	1,510.60	7	1,853.90	7	2,197.20	7	2,540.50	7	2,883.78	7	3,227.00
1/4	170.34	1/4	490.49	1/4	833.13	1/4	1,174.45	1/4	1,517.75	1/4	1,861.05	1/4	2,204.35	1/4	2,547.65	1/4	2,890.94	1/4	3,234.15
1/2	176.53	1/2	497.64	1/2	840.22	1/2	1,181.60	1/2	1,524.90	1/2	1,868.20	1/2	2,211.51	1/2	2,554.81	1/2	2,898.09	1/2	3,241.30
3/4	182.73	3/4	504.79	3/4	847.31	3/4	1,188.75	3/4	1,532.06	3/4	1,875.36	3/4	2,218.66	3/4	2,561.96	3/4	2,905.24	3/4	3,248.45
8	188.92	8	511.94	8	854.40	8	1,195.91	8	1,539.21	8	1,882.51	8	2,225.81	8	2,569.11	8	2,912.39	8	3,255.60
1/4	195.19	1/4	519.10	1/4	861.50	1/4	1,203.06	1/4	1,546.36	1/4	1,889.66	1/4	2,232.96	1/4	2,576.26	1/4	2,919.54	1/4	3,262.75
1/2	201.47	1/2	526.25	1/2	868.59	1/2	1,210.21	1/2	1,553.51	1/2	1,896.81	1/2	2,240.11	1/2	2,583.41	1/2	2,926.69	1/2	3,269.90
3/4	207.74	3/4	533.40	3/4	875.68	3/4	1,217.36	3/4	1,560.66	3/4	1,903.96	3/4	2,247.27	3/4	2,590.57	3/4	2,933.85	3/4	3,277.05
9	214.01	9	540.55	9	882.77	9	1,224.52	9	1,567.82	9	1,911.12	9	2,254.42	9	2,597.72	9	2,941.00	9	3,284.20
1/4	220.37	1/4	547.70	1/4	889.86	1/4	1,231.67	1/4	1,574.97	1/4	1,918.27	1/4	2,261.57	1/4	2,604.87	1/4	2,948.15	1/4	3,291.35
1/2	226.73	1/2	554.86	1/2	896.95	1/2	1,238.82	1/2	1,582.12	1/2	1,925.42	1/2	2,268.72	1/2	2,612.02	1/2	2,955.30	1/2	3,298.50
3/4	233.09	3/4	562.01	3/4	904.05	3/4	1,245.97	3/4	1,589.27	3/4	1,932.57	3/4	2,275.87	3/4	2,619.17	3/4	2,962.45	3/4	3,305.65
10	239.45	10	569.16	10	911.14	10	1,253.12	10	1,596.42	10	1,939.73	10	2,283.03	10	2,626.33	10	2,969.60	10	3,312.80
1/4	245.89	1/4	576.31	1/4	918.23	1/4	1,260.28	1/4	1,603.58	1/4	1,946.88	1/4	2,290.18	1/4	2,633.48	1/4	2,976.76	1/4	3,319.95
1/2	252.33	1/2	583.46	1/2	925.32	1/2	1,267.43	1/2	1,610.73	1/2	1,954.03	1/2	2,297.33	1/2	2,640.63	1/2	2,983.91	1/2	3,327.10
3/4	258.77	3/4	590.61	3/4	932.41	3/4	1,274.58	3/4	1,617.88	3/4	1,961.18	3/4	2,304.48	3/4	2,647.78	3/4	2,991.06	3/4	3,334.25
11	265.21	11	597.77	11	939.50	11	1,281.73	11	1,625.03	11	1,968.33	11	2,311.63	11	2,654.93	11	2,998.21	11	3,341.40
1/4	271.74	1/4	604.92	1/4	946.59	1/4	1,288.88	1/4	1,632.18	1/4	1,975.49	1/4	2,318.79	1/4	2,662.08	1/4	3,005.36	1/4	3,348.55
1/2	278.26	1/2	612.07	1/2	953.69	1/2	1,296.04	1/2	1,639.34	1/2	1,982.64	1/2	2,325.94	1/2	2,669.24	1/2	3,012.51	1/2	3,355.69
3/4	284.79	3/4	619.22	3/4	960.78	3/4	1,303.19	3/4	1,646.49	3/4	1,989.79	3/4	2,333.09	3/4	2,676.39	3/4	3,019.66	3/4	3,362.84

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**1 PORT**  
**INNAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,369.99	0	3,713.20	0	4,056.49	0	4,399.11	0	4,740.83	0		0		0		0		0	
1/4	3,377.14	1/4	3,720.36	1/4	4,063.64	1/4	4,406.23	1/4	4,747.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,384.29	1/2	3,727.51	1/2	4,070.79	1/2	4,413.35	1/2	4,755.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,391.44	3/4	3,734.66	3/4	4,077.94	3/4	4,420.47	3/4	4,762.18	3/4		3/4		3/4		3/4		3/4	
1	3,398.59	1	3,741.81	1	4,085.09	1	4,427.59	1	4,769.30	1		1		1		1		1	
1/4	3,405.74	1/4	3,748.96	1/4	4,092.24	1/4	4,434.71	1/4	4,776.42	1/4		1/4		1/4		1/4		1/4	
1/2	3,412.89	1/2	3,756.11	1/2	4,099.40	1/2	4,441.83	1/2	4,783.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,420.04	3/4	3,763.27	3/4	4,106.55	3/4	4,448.95	3/4	4,790.66	3/4		3/4		3/4		3/4		3/4	
2	3,427.19	2	3,770.42	2	4,113.70	2	4,456.07	2	4,797.78	2		2		2		2		2	
1/4	3,434.34	1/4	3,777.57	1/4	4,120.85	1/4	4,463.18	1/4	4,804.90	1/4		1/4		1/4		1/4		1/4	
1/2	3,441.49	1/2	3,784.72	1/2	4,128.00	1/2	4,470.30	1/2	4,812.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,448.64	3/4	3,791.87	3/4	4,135.15	3/4	4,477.42	3/4	4,819.13	3/4		3/4		3/4		3/4		3/4	
3	3,455.79	3	3,799.02	3	4,142.31	3	4,484.54	3	4,826.25	3		3		3		3		3	
1/4	3,462.94	1/4	3,806.18	1/4	4,149.46	1/4	4,491.66	1/4	4,833.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,470.09	1/2	3,813.33	1/2	4,156.61	1/2	4,498.78	1/2	4,840.40	1/2		1/2		1/2		1/2		1/2	
3/4	3,477.24	3/4	3,820.48	3/4	4,163.76	3/4	4,505.90	3/4	4,847.47	3/4		3/4		3/4		3/4		3/4	
4	3,484.39	4	3,827.63	4	4,170.91	4	4,513.02	4	4,854.55	4		4		4		4		4	
1/4	3,491.54	1/4	3,834.78	1/4	4,178.06	1/4	4,520.14	1/4	4,861.62	1/4		1/4		1/4		1/4		1/4	
1/2	3,498.69	1/2	3,841.93	1/2	4,185.22	1/2	4,527.26	1/2	4,868.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,505.84	3/4	3,849.09	3/4	4,192.37	3/4	4,534.37	3/4	4,875.77	3/4		3/4		3/4		3/4		3/4	
5	3,512.99	5	3,856.24	5	4,199.52	5	4,541.49	5	4,882.84	5		5		5		5		5	
1/4	3,520.14	1/4	3,863.39	1/4	4,206.67	1/4	4,548.61	1/4	4,889.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,527.29	1/2	3,870.54	1/2	4,213.82	1/2	4,555.73	1/2	4,896.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,534.44	3/4	3,877.69	3/4	4,220.97	3/4	4,562.85	3/4	4,904.06	3/4		3/4		3/4		3/4		3/4	
6	3,541.59	6	3,884.84	6	4,228.13	6	4,569.97	6	4,911.14	6		6		6		6		6	
1/4	3,548.74	1/4	3,892.00	1/4	4,235.28	1/4	4,577.09	1/4	4,918.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,555.89	1/2	3,899.15	1/2	4,242.43	1/2	4,584.21	1/2	4,925.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,563.04	3/4	3,906.30	3/4	4,249.58	3/4	4,591.33	3/4	4,932.32	3/4		3/4		3/4		3/4		3/4	
7	3,570.19	7	3,913.45	7	4,256.73	7	4,598.45	7	4,939.38	7		7		7		7		7	
1/4	3,577.34	1/4	3,920.60	1/4	4,263.85	1/4	4,605.56	1/4	4,946.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,584.49	1/2	3,927.75	1/2	4,270.97	1/2	4,612.68	1/2	4,953.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,591.64	3/4	3,934.91	3/4	4,278.09	3/4	4,619.80	3/4	4,960.39	3/4		3/4		3/4		3/4		3/4	
8	3,598.78	8	3,942.06	8	4,285.21	8	4,626.92	8	4,967.40	8		8		8		8		8	
1/4	3,605.93	1/4	3,949.21	1/4	4,292.33	1/4	4,634.04	1/4	4,973.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,613.08	1/2	3,956.36	1/2	4,299.45	1/2	4,641.16	1/2	4,979.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,620.23	3/4	3,963.51	3/4	4,306.57	3/4	4,648.28	3/4	4,985.94	3/4		3/4		3/4		3/4		3/4	
9	3,627.38	9	3,970.67	9	4,313.69	9	4,655.40	9	4,992.12	9		9		9		9		9	
1/4	3,634.54	1/4	3,977.82	1/4	4,320.80	1/4	4,662.52	1/4	4,997.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,641.69	1/2	3,984.97	1/2	4,327.92	1/2	4,669.64	1/2	5,002.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,648.84	3/4	3,992.12	3/4	4,335.04	3/4	4,676.75	3/4	5,007.08	3/4		3/4		3/4		3/4		3/4	
10	3,655.99	10	3,999.27	10	4,342.16	10	4,683.87	10	5,012.07	10		10		10		10		10	
1/4	3,663.14	1/4	4,006.42	1/4	4,349.28	1/4	4,690.99	1/4	5,015.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,670.29	1/2	4,013.58	1/2	4,356.40	1/2	4,698.11	1/2	5,019.66	1/2		1/2		1/2		1/2		1/2	
3/4	3,677.45	3/4	4,020.73	3/4	4,363.52	3/4	4,705.23	3/4	5,023.46	3/4		3/4		3/4		3/4		3/4	
11	3,684.60	11	4,027.88	11	4,370.64	11	4,712.35	11	5,027.25	11		11		11		11		11	
1/4	3,691.75	1/4	4,035.03	1/4	4,377.76	1/4	4,719.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,698.90	1/2	4,042.18	1/2	4,384.88	1/2	4,726.59	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,706.05	3/4	4,049.33	3/4	4,391.99	3/4	4,733.71	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020



# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

## 1 STBD

## INNAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.66	0	291.00	0	625.78	0	968.53	0	1,311.44	0	1,654.42	0	1,997.40	0	2,340.38	0	2,683.35	0	3,026.30
1/4	17.58	1/4	297.60	1/4	632.92	1/4	975.67	1/4	1,318.59	1/4	1,661.57	1/4	2,004.54	1/4	2,347.52	1/4	2,690.50	1/4	3,033.44
1/2	20.50	1/2	304.20	1/2	640.07	1/2	982.81	1/2	1,325.73	1/2	1,668.71	1/2	2,011.69	1/2	2,354.67	1/2	2,697.64	1/2	3,040.59
3/4	23.42	3/4	310.81	3/4	647.21	3/4	989.94	3/4	1,332.88	3/4	1,675.86	3/4	2,018.84	3/4	2,361.81	3/4	2,704.79	3/4	3,047.73
1	26.34	1	317.41	1	654.36	1	997.08	1	1,340.02	1	1,683.00	1	2,025.98	1	2,368.96	1	2,711.93	1	3,054.87
1/4	31.12	1/4	324.09	1/4	661.50	1/4	1,004.22	1/4	1,347.17	1/4	1,690.15	1/4	2,033.13	1/4	2,376.11	1/4	2,719.08	1/4	3,062.02
1/2	35.91	1/2	330.78	1/2	668.65	1/2	1,011.35	1/2	1,354.31	1/2	1,697.29	1/2	2,040.27	1/2	2,383.25	1/2	2,726.22	1/2	3,069.16
3/4	40.70	3/4	337.46	3/4	675.79	3/4	1,018.49	3/4	1,361.46	3/4	1,704.44	3/4	2,047.42	3/4	2,390.40	3/4	2,733.37	3/4	3,076.30
2	45.49	2	344.15	2	682.94	2	1,025.63	2	1,368.60	2	1,711.58	2	2,054.56	2	2,397.54	2	2,740.51	2	3,083.45
1/4	51.22	1/4	350.92	1/4	690.08	1/4	1,032.77	1/4	1,375.75	1/4	1,718.73	1/4	2,061.71	1/4	2,404.69	1/4	2,747.66	1/4	3,090.59
1/2	56.95	1/2	357.69	1/2	697.23	1/2	1,039.92	1/2	1,382.90	1/2	1,725.87	1/2	2,068.85	1/2	2,411.83	1/2	2,754.80	1/2	3,097.73
3/4	62.68	3/4	364.46	3/4	704.37	3/4	1,047.06	3/4	1,390.04	3/4	1,733.02	3/4	2,076.00	3/4	2,418.98	3/4	2,761.95	3/4	3,104.87
3	68.41	3	371.23	3	711.52	3	1,054.21	3	1,397.19	3	1,740.17	3	2,083.14	3	2,426.12	3	2,769.09	3	3,112.02
1/4	74.25	1/4	378.08	1/4	718.66	1/4	1,061.35	1/4	1,404.33	1/4	1,747.31	1/4	2,090.29	1/4	2,433.27	1/4	2,776.24	1/4	3,119.16
1/2	80.09	1/2	384.93	1/2	725.81	1/2	1,068.50	1/2	1,411.48	1/2	1,754.46	1/2	2,097.44	1/2	2,440.41	1/2	2,783.38	1/2	3,126.30
3/4	85.93	3/4	391.78	3/4	732.95	3/4	1,075.64	3/4	1,418.62	3/4	1,761.60	3/4	2,104.58	3/4	2,447.56	3/4	2,790.53	3/4	3,133.45
4	91.77	4	398.64	4	740.10	4	1,082.79	4	1,425.77	4	1,768.75	4	2,111.73	4	2,454.71	4	2,797.67	4	3,140.59
1/4	97.70	1/4	405.57	1/4	747.24	1/4	1,089.93	1/4	1,432.91	1/4	1,775.89	1/4	2,118.87	1/4	2,461.85	1/4	2,804.82	1/4	3,147.73
1/2	103.63	1/2	412.51	1/2	754.39	1/2	1,097.08	1/2	1,440.06	1/2	1,783.04	1/2	2,126.02	1/2	2,469.00	1/2	2,811.96	1/2	3,154.88
3/4	109.57	3/4	419.45	3/4	761.53	3/4	1,104.22	3/4	1,447.20	3/4	1,790.18	3/4	2,133.16	3/4	2,476.14	3/4	2,819.11	3/4	3,162.02
5	115.50	5	426.38	5	768.68	5	1,111.37	5	1,454.35	5	1,797.33	5	2,140.31	5	2,483.29	5	2,826.25	5	3,169.16
1/4	121.52	1/4	433.40	1/4	775.83	1/4	1,118.52	1/4	1,461.49	1/4	1,804.47	1/4	2,147.45	1/4	2,490.43	1/4	2,833.40	1/4	3,176.30
1/2	127.53	1/2	440.42	1/2	782.97	1/2	1,125.66	1/2	1,468.64	1/2	1,811.62	1/2	2,154.60	1/2	2,497.58	1/2	2,840.54	1/2	3,183.45
3/4	133.55	3/4	447.44	3/4	790.12	3/4	1,132.81	3/4	1,475.79	3/4	1,818.76	3/4	2,161.74	3/4	2,504.72	3/4	2,847.69	3/4	3,190.59
6	139.57	6	454.46	6	797.26	6	1,139.95	6	1,482.93	6	1,825.91	6	2,168.89	6	2,511.87	6	2,854.83	6	3,197.73
1/4	145.67	1/4	461.57	1/4	804.40	1/4	1,147.10	1/4	1,490.08	1/4	1,833.06	1/4	2,176.03	1/4	2,519.01	1/4	2,861.98	1/4	3,204.88
1/2	151.77	1/2	468.67	1/2	811.53	1/2	1,154.24	1/2	1,497.22	1/2	1,840.20	1/2	2,183.18	1/2	2,526.16	1/2	2,869.12	1/2	3,212.02
3/4	157.87	3/4	475.77	3/4	818.67	3/4	1,161.39	3/4	1,504.37	3/4	1,847.35	3/4	2,190.33	3/4	2,533.30	3/4	2,876.27	3/4	3,219.16
7	163.97	7	482.88	7	825.81	7	1,168.53	7	1,511.51	7	1,854.49	7	2,197.47	7	2,540.45	7	2,883.41	7	3,226.31
1/4	170.15	1/4	490.02	1/4	832.94	1/4	1,175.68	1/4	1,518.66	1/4	1,861.64	1/4	2,204.62	1/4	2,547.60	1/4	2,890.56	1/4	3,233.45
1/2	176.34	1/2	497.17	1/2	840.08	1/2	1,182.82	1/2	1,525.80	1/2	1,868.78	1/2	2,211.76	1/2	2,554.74	1/2	2,897.70	1/2	3,240.59
3/4	182.52	3/4	504.31	3/4	847.21	3/4	1,189.97	3/4	1,532.95	3/4	1,875.93	3/4	2,218.91	3/4	2,561.89	3/4	2,904.85	3/4	3,247.73
8	188.71	8	511.46	8	854.35	8	1,197.11	8	1,540.09	8	1,883.07	8	2,226.05	8	2,569.03	8	2,911.99	8	3,254.88
1/4	194.98	1/4	518.60	1/4	861.49	1/4	1,204.26	1/4	1,547.24	1/4	1,890.22	1/4	2,233.20	1/4	2,576.18	1/4	2,919.14	1/4	3,262.02
1/2	201.24	1/2	525.75	1/2	868.62	1/2	1,211.41	1/2	1,554.38	1/2	1,897.36	1/2	2,240.34	1/2	2,583.32	1/2	2,926.28	1/2	3,269.16
3/4	207.51	3/4	532.89	3/4	875.76	3/4	1,218.55	3/4	1,561.53	3/4	1,904.51	3/4	2,247.49	3/4	2,590.47	3/4	2,933.43	3/4	3,276.31
9	213.78	9	540.04	9	882.90	9	1,225.70	9	1,568.68	9	1,911.65	9	2,254.63	9	2,597.61	9	2,940.57	9	3,283.45
1/4	220.13	1/4	547.18	1/4	890.03	1/4	1,232.84	1/4	1,575.82	1/4	1,918.80	1/4	2,261.78	1/4	2,604.76	1/4	2,947.72	1/4	3,290.59
1/2	226.48	1/2	554.33	1/2	897.17	1/2	1,239.99	1/2	1,582.97	1/2	1,925.95	1/2	2,268.92	1/2	2,611.90	1/2	2,954.86	1/2	3,297.74
3/4	232.83	3/4	561.47	3/4	904.31	3/4	1,247.13	3/4	1,590.11	3/4	1,933.09	3/4	2,276.07	3/4	2,619.05	3/4	2,962.00	3/4	3,304.88
10	239.19	10	568.62	10	911.44	10	1,254.28	10	1,597.26	10	1,940.24	10	2,283.22	10	2,626.19	10	2,969.15	10	3,312.02
1/4	245.62	1/4	575.76	1/4	918.58	1/4	1,261.42	1/4	1,604.40	1/4	1,947.38	1/4	2,290.36	1/4	2,633.34	1/4	2,976.29	1/4	3,319.16
1/2	252.05	1/2	582.91	1/2	925.72	1/2	1,268.57	1/2	1,611.55	1/2	1,954.53	1/2	2,297.51	1/2	2,640.48	1/2	2,983.44	1/2	3,326.31
3/4	258.49	3/4	590.05	3/4	932.85	3/4	1,275.71	3/4	1,618.69	3/4	1,961.67	3/4	2,304.65	3/4	2,647.63	3/4	2,990.58	3/4	3,333.45
11	264.92	11	597.20	11	939.99	11	1,282.86	11	1,625.84	11	1,968.82	11	2,311.80	11	2,654.77	11	2,997.73	11	3,340.59
1/4	271.44	1/4	604.34	1/4	947.12	1/4	1,290.00	1/4	1,632.98	1/4	1,975.96	1/4	2,318.94	1/4	2,661.92	1/4	3,004.87	1/4	3,347.74
1/2	277.96	1/2	611.49	1/2	954.26	1/2	1,297.15	1/2	1,640.13	1/2	1,983.11	1/2	2,326.09	1/2	2,669.06	1/2	3,012.02	1/2	3,354.88
3/4	284.48	3/4	618.63	3/4	961.40	3/4	1,304.30	3/4	1,647.27	3/4	1,990.25	3/4	2,333.23	3/4	2,676.21	3/4	3,019.16	3/4	3,362.02

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

**1 STBD**  
**INNAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 16'-04 1/2"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,369.17	0	3,712.05	0	4,055.01	0	4,397.32	0	4,738.71	0		0		0		0		0	
1/4	3,376.31	1/4	3,719.20	1/4	4,062.16	1/4	4,404.43	1/4	4,745.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,383.45	1/2	3,726.34	1/2	4,069.30	1/2	4,411.54	1/2	4,752.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,390.59	3/4	3,733.49	3/4	4,076.45	3/4	4,418.66	3/4	4,760.05	3/4		3/4		3/4		3/4		3/4	
1	3,397.74	1	3,740.63	1	4,083.59	1	4,425.77	1	4,767.16	1		1		1		1		1	
1/4	3,404.88	1/4	3,747.78	1/4	4,090.74	1/4	4,432.88	1/4	4,774.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,412.02	1/2	3,754.92	1/2	4,097.88	1/2	4,439.99	1/2	4,781.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,419.17	3/4	3,762.07	3/4	4,105.03	3/4	4,447.11	3/4	4,788.50	3/4		3/4		3/4		3/4		3/4	
2	3,426.31	2	3,769.21	2	4,112.17	2	4,454.22	2	4,795.61	2		2		2		2		2	
1/4	3,433.45	1/4	3,776.36	1/4	4,119.32	1/4	4,461.33	1/4	4,802.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,440.60	1/2	3,783.50	1/2	4,126.46	1/2	4,468.44	1/2	4,809.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,447.74	3/4	3,790.65	3/4	4,133.61	3/4	4,475.55	3/4	4,816.95	3/4		3/4		3/4		3/4		3/4	
3	3,454.88	3	3,797.79	3	4,140.75	3	4,482.67	3	4,824.06	3		3		3		3		3	
1/4	3,462.02	1/4	3,804.94	1/4	4,147.90	1/4	4,489.78	1/4	4,831.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,469.17	1/2	3,812.08	1/2	4,155.04	1/2	4,496.89	1/2	4,838.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,476.31	3/4	3,819.23	3/4	4,162.19	3/4	4,504.00	3/4	4,845.26	3/4		3/4		3/4		3/4		3/4	
4	3,483.45	4	3,826.37	4	4,169.33	4	4,511.12	4	4,852.33	4		4		4		4		4	
1/4	3,490.60	1/4	3,833.52	1/4	4,176.48	1/4	4,518.23	1/4	4,859.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,497.74	1/2	3,840.66	1/2	4,183.62	1/2	4,525.34	1/2	4,866.46	1/2		1/2		1/2		1/2		1/2	
3/4	3,504.88	3/4	3,847.81	3/4	4,190.77	3/4	4,532.45	3/4	4,873.53	3/4		3/4		3/4		3/4		3/4	
5	3,512.03	5	3,854.95	5	4,197.91	5	4,539.57	5	4,880.60	5		5		5		5		5	
1/4	3,519.17	1/4	3,862.10	1/4	4,205.06	1/4	4,546.68	1/4	4,887.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,526.31	1/2	3,869.24	1/2	4,212.20	1/2	4,553.79	1/2	4,894.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,533.45	3/4	3,876.39	3/4	4,219.35	3/4	4,560.90	3/4	4,901.79	3/4		3/4		3/4		3/4		3/4	
6	3,540.60	6	3,883.53	6	4,226.49	6	4,568.01	6	4,908.86	6		6		6		6		6	
1/4	3,547.74	1/4	3,890.68	1/4	4,233.64	1/4	4,575.13	1/4	4,915.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,554.88	1/2	3,897.82	1/2	4,240.78	1/2	4,582.24	1/2	4,922.97	1/2		1/2		1/2		1/2		1/2	
3/4	3,562.03	3/4	3,904.97	3/4	4,247.93	3/4	4,589.35	3/4	4,930.02	3/4		3/4		3/4		3/4		3/4	
7	3,569.17	7	3,912.11	7	4,255.07	7	4,596.46	7	4,937.07	7		7		7		7		7	
1/4	3,576.31	1/4	3,919.26	1/4	4,262.19	1/4	4,603.58	1/4	4,944.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,583.46	1/2	3,926.40	1/2	4,269.30	1/2	4,610.69	1/2	4,951.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,590.60	3/4	3,933.55	3/4	4,276.41	3/4	4,617.80	3/4	4,958.07	3/4		3/4		3/4		3/4		3/4	
8	3,597.74	8	3,940.69	8	4,283.52	8	4,624.91	8	4,965.07	8		8		8		8		8	
1/4	3,604.88	1/4	3,947.84	1/4	4,290.64	1/4	4,632.03	1/4	4,971.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,612.03	1/2	3,954.98	1/2	4,297.75	1/2	4,639.14	1/2	4,977.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,619.17	3/4	3,962.13	3/4	4,304.86	3/4	4,646.25	3/4	4,983.59	3/4		3/4		3/4		3/4		3/4	
9	3,626.31	9	3,969.27	9	4,311.97	9	4,653.36	9	4,989.76	9		9		9		9		9	
1/4	3,633.46	1/4	3,976.42	1/4	4,319.08	1/4	4,660.47	1/4	4,994.75	1/4		1/4		1/4		1/4		1/4	
1/2	3,640.60	1/2	3,983.56	1/2	4,326.20	1/2	4,667.59	1/2	4,999.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,647.75	3/4	3,990.71	3/4	4,333.31	3/4	4,674.70	3/4	5,004.71	3/4		3/4		3/4		3/4		3/4	
10	3,654.89	10	3,997.85	10	4,340.42	10	4,681.81	10	5,009.70	10		10		10		10		10	
1/4	3,662.04	1/4	4,005.00	1/4	4,347.53	1/4	4,688.92	1/4	5,013.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,669.18	1/2	4,012.14	1/2	4,354.65	1/2	4,696.04	1/2	5,017.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,676.33	3/4	4,019.29	3/4	4,361.76	3/4	4,703.15	3/4	5,021.07	3/4		3/4		3/4		3/4		3/4	
11	3,683.47	11	4,026.43	11	4,368.87	11	4,710.26	11	5,024.87	11		11		11		11		11	
1/4	3,690.62	1/4	4,033.58	1/4	4,375.98	1/4	4,717.37	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,697.76	1/2	4,040.72	1/2	4,383.09	1/2	4,724.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,704.91	3/4	4,047.87	3/4	4,390.21	3/4	4,731.60	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020





**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**2 PORT  
INNAGE TABLE**

**HERMETIC  
GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.63	0	342.64	0	685.12	0	1,017.91	0	1,355.62	0	1,698.11	0	2,040.60	0	2,383.09	0	2,725.58	0	3,068.06
1/4	19.09	1/4	349.78	1/4	692.25	1/4	1,024.74	1/4	1,362.76	1/4	1,705.24	1/4	2,047.73	1/4	2,390.22	1/4	2,732.71	1/4	3,075.19
1/2	23.55	1/2	356.91	1/2	699.39	1/2	1,031.56	1/2	1,369.89	1/2	1,712.38	1/2	2,054.87	1/2	2,397.36	1/2	2,739.85	1/2	3,082.33
3/4	28.01	3/4	364.05	3/4	706.52	3/4	1,038.39	3/4	1,377.03	3/4	1,719.52	3/4	2,062.00	3/4	2,404.49	3/4	2,746.98	3/4	3,089.46
1	32.47	1	371.18	1	713.66	1	1,045.22	1	1,384.16	1	1,726.65	1	2,069.14	1	2,411.63	1	2,754.12	1	3,096.59
1/4	38.71	1/4	378.32	1/4	720.79	1/4	1,052.05	1/4	1,391.30	1/4	1,733.79	1/4	2,076.28	1/4	2,418.76	1/4	2,761.25	1/4	3,103.72
1/2	44.95	1/2	385.45	1/2	727.93	1/2	1,058.88	1/2	1,398.43	1/2	1,740.92	1/2	2,083.41	1/2	2,425.90	1/2	2,768.39	1/2	3,110.86
3/4	51.20	3/4	392.59	3/4	735.06	3/4	1,065.71	3/4	1,405.57	3/4	1,748.06	3/4	2,090.55	3/4	2,433.04	3/4	2,775.52	3/4	3,117.99
2	57.44	2	399.72	2	742.20	2	1,072.53	2	1,412.70	2	1,755.19	2	2,097.68	2	2,440.17	2	2,782.66	2	3,125.12
1/4	64.54	1/4	406.86	1/4	749.33	1/4	1,079.37	1/4	1,419.84	1/4	1,762.33	1/4	2,104.82	1/4	2,447.31	1/4	2,789.80	1/4	3,132.26
1/2	71.63	1/2	413.99	1/2	756.47	1/2	1,086.21	1/2	1,426.97	1/2	1,769.46	1/2	2,111.95	1/2	2,454.44	1/2	2,796.93	1/2	3,139.39
3/4	78.73	3/4	421.13	3/4	763.60	3/4	1,093.04	3/4	1,434.11	3/4	1,776.60	3/4	2,119.09	3/4	2,461.58	3/4	2,804.07	3/4	3,146.52
3	85.83	3	428.26	3	770.74	3	1,099.88	3	1,441.24	3	1,783.73	3	2,126.22	3	2,468.71	3	2,811.20	3	3,153.66
1/4	92.96	1/4	435.39	1/4	777.87	1/4	1,106.73	1/4	1,448.38	1/4	1,790.87	1/4	2,133.36	1/4	2,475.85	1/4	2,818.34	1/4	3,160.79
1/2	100.08	1/2	442.53	1/2	785.01	1/2	1,113.59	1/2	1,455.51	1/2	1,798.00	1/2	2,140.49	1/2	2,482.98	1/2	2,825.47	1/2	3,167.92
3/4	107.21	3/4	449.66	3/4	792.14	3/4	1,120.44	3/4	1,462.65	3/4	1,805.14	3/4	2,147.63	3/4	2,490.12	3/4	2,832.61	3/4	3,175.05
4	114.33	4	456.80	4	799.27	4	1,127.29	4	1,469.78	4	1,812.27	4	2,154.76	4	2,497.25	4	2,839.74	4	3,182.19
1/4	121.46	1/4	463.93	1/4	806.13	1/4	1,134.43	1/4	1,476.92	1/4	1,819.41	1/4	2,161.90	1/4	2,504.39	1/4	2,846.88	1/4	3,189.32
1/2	128.60	1/2	471.07	1/2	812.98	1/2	1,141.56	1/2	1,484.05	1/2	1,826.54	1/2	2,169.03	1/2	2,511.52	1/2	2,854.01	1/2	3,196.45
3/4	135.73	3/4	478.20	3/4	819.83	3/4	1,148.70	3/4	1,491.19	3/4	1,833.68	3/4	2,176.17	3/4	2,518.66	3/4	2,861.15	3/4	3,203.59
5	142.86	5	485.34	5	826.69	5	1,155.83	5	1,498.32	5	1,840.81	5	2,183.30	5	2,525.79	5	2,868.28	5	3,210.72
1/4	150.00	1/4	492.47	1/4	833.52	1/4	1,162.97	1/4	1,505.46	1/4	1,847.95	1/4	2,190.44	1/4	2,532.93	1/4	2,875.42	1/4	3,217.85
1/2	157.13	1/2	499.61	1/2	840.36	1/2	1,170.10	1/2	1,512.59	1/2	1,855.08	1/2	2,197.57	1/2	2,540.06	1/2	2,882.55	1/2	3,224.99
3/4	164.27	3/4	506.74	3/4	847.20	3/4	1,177.24	3/4	1,519.73	3/4	1,862.22	3/4	2,204.71	3/4	2,547.20	3/4	2,889.69	3/4	3,232.12
6	171.40	6	513.88	6	854.03	6	1,184.38	6	1,526.86	6	1,869.35	6	2,211.84	6	2,554.33	6	2,896.82	6	3,239.25
1/4	178.54	1/4	521.01	1/4	860.86	1/4	1,191.51	1/4	1,534.00	1/4	1,876.49	1/4	2,218.98	1/4	2,561.47	1/4	2,903.96	1/4	3,246.38
1/2	185.67	1/2	528.15	1/2	867.69	1/2	1,198.65	1/2	1,541.14	1/2	1,883.62	1/2	2,226.11	1/2	2,568.60	1/2	2,911.09	1/2	3,253.52
3/4	192.81	3/4	535.28	3/4	874.52	3/4	1,205.78	3/4	1,548.27	3/4	1,890.76	3/4	2,233.25	3/4	2,575.74	3/4	2,918.23	3/4	3,260.65
7	199.94	7	542.42	7	881.34	7	1,212.92	7	1,555.41	7	1,897.90	7	2,240.38	7	2,582.87	7	2,925.36	7	3,267.78
1/4	207.08	1/4	549.55	1/4	888.17	1/4	1,220.05	1/4	1,562.54	1/4	1,905.03	1/4	2,247.52	1/4	2,590.01	1/4	2,932.50	1/4	3,274.92
1/2	214.21	1/2	556.69	1/2	895.00	1/2	1,227.19	1/2	1,569.68	1/2	1,912.17	1/2	2,254.66	1/2	2,597.14	1/2	2,939.63	1/2	3,282.05
3/4	221.35	3/4	563.82	3/4	901.83	3/4	1,234.32	3/4	1,576.81	3/4	1,919.30	3/4	2,261.79	3/4	2,604.28	3/4	2,946.77	3/4	3,289.18
8	228.48	8	570.96	8	908.66	8	1,241.46	8	1,583.95	8	1,926.44	8	2,268.93	8	2,611.42	8	2,953.90	8	3,296.32
1/4	235.62	1/4	578.09	1/4	915.48	1/4	1,248.59	1/4	1,591.08	1/4	1,933.57	1/4	2,276.06	1/4	2,618.55	1/4	2,961.04	1/4	3,303.45
1/2	242.75	1/2	585.23	1/2	922.31	1/2	1,255.73	1/2	1,598.22	1/2	1,940.71	1/2	2,283.20	1/2	2,625.69	1/2	2,968.18	1/2	3,310.58
3/4	249.89	3/4	592.36	3/4	929.14	3/4	1,262.86	3/4	1,605.35	3/4	1,947.84	3/4	2,290.33	3/4	2,632.82	3/4	2,975.31	3/4	3,317.71
9	257.02	9	599.50	9	935.97	9	1,270.00	9	1,612.49	9	1,954.98	9	2,297.47	9	2,639.96	9	2,982.45	9	3,324.85
1/4	264.16	1/4	606.63	1/4	942.80	1/4	1,277.13	1/4	1,619.62	1/4	1,962.11	1/4	2,304.60	1/4	2,647.09	1/4	2,989.58	1/4	3,331.98
1/2	271.29	1/2	613.77	1/2	949.63	1/2	1,284.27	1/2	1,626.76	1/2	1,969.25	1/2	2,311.74	1/2	2,654.23	1/2	2,996.72	1/2	3,339.11
3/4	278.43	3/4	620.90	3/4	956.45	3/4	1,291.40	3/4	1,633.89	3/4	1,976.38	3/4	2,318.87	3/4	2,661.36	3/4	3,003.85	3/4	3,346.25
10	285.56	10	628.04	10	963.28	10	1,298.54	10	1,641.03	10	1,983.52	10	2,326.01	10	2,668.50	10	3,010.99	10	3,353.38
1/4	292.70	1/4	635.17	1/4	970.11	1/4	1,305.67	1/4	1,648.16	1/4	1,990.65	1/4	2,333.14	1/4	2,675.63	1/4	3,018.12	1/4	3,360.51
1/2	299.83	1/2	642.31	1/2	976.94	1/2	1,312.81	1/2	1,655.30	1/2	1,997.79	1/2	2,340.28	1/2	2,682.77	1/2	3,025.26	1/2	3,367.65
3/4	306.97	3/4	649.44	3/4	983.77	3/4	1,319.94	3/4	1,662.43	3/4	2,004.92	3/4	2,347.41	3/4	2,689.90	3/4	3,032.39	3/4	3,374.78
11	314.10	11	656.58	11	990.59	11	1,327.08	11	1,669.57	11	2,012.06	11	2,354.55	11	2,697.04	11	3,039.53	11	3,381.91
1/4	321.24	1/4	663.71	1/4	997.42	1/4	1,334.21	1/4	1,676.70	1/4	2,019.19	1/4	2,361.68	1/4	2,704.17	1/4	3,046.66	1/4	3,389.04
1/2	328.37	1/2	670.85	1/2	1,004.25	1/2	1,341.35	1/2	1,683.84	1/2	2,026.33	1/2	2,368.82	1/2	2,711.31	1/2	3,053.79	1/2	3,396.18
3/4	335.51	3/4	677.98	3/4	1,011.08	3/4	1,348.48	3/4	1,690.97	3/4	2,033.46	3/4	2,375.95	3/4	2,718.44	3/4	3,060.93	3/4	3,403.31

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the  
BARGE "FMT 3312"

**2 PORT  
INNAGE TABLE  
HERMETIC  
GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,410.44	0	3,752.83	0	4,095.21	0	4,436.95	0	4,777.78	0		0		0		0		0	
1/4	3,417.58	1/4	3,759.96	1/4	4,102.34	1/4	4,444.05	1/4	4,784.88	1/4		1/4		1/4		1/4		1/4	
1/2	3,424.71	1/2	3,767.09	1/2	4,109.48	1/2	4,451.15	1/2	4,791.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,431.84	3/4	3,774.23	3/4	4,116.61	3/4	4,458.25	3/4	4,799.08	3/4		3/4		3/4		3/4		3/4	
1	3,438.98	1	3,781.36	1	4,123.74	1	4,465.35	1	4,806.18	1		1		1		1		1	
1/4	3,446.11	1/4	3,788.49	1/4	4,130.88	1/4	4,472.45	1/4	4,813.28	1/4		1/4		1/4		1/4		1/4	
1/2	3,453.24	1/2	3,795.63	1/2	4,138.01	1/2	4,479.55	1/2	4,820.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,460.37	3/4	3,802.76	3/4	4,145.14	3/4	4,486.65	3/4	4,827.48	3/4		3/4		3/4		3/4		3/4	
2	3,467.51	2	3,809.89	2	4,152.28	2	4,493.75	2	4,834.58	2		2		2		2		2	
1/4	3,474.64	1/4	3,817.02	1/4	4,159.41	1/4	4,500.85	1/4	4,841.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,481.77	1/2	3,824.16	1/2	4,166.54	1/2	4,507.95	1/2	4,848.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,488.91	3/4	3,831.29	3/4	4,173.67	3/4	4,515.05	3/4	4,855.88	3/4		3/4		3/4		3/4		3/4	
3	3,496.04	3	3,838.42	3	4,180.81	3	4,522.15	3	4,862.98	3		3		3		3		3	
1/4	3,503.17	1/4	3,845.56	1/4	4,187.94	1/4	4,529.25	1/4	4,870.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,510.31	1/2	3,852.69	1/2	4,195.07	1/2	4,536.36	1/2	4,877.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,517.44	3/4	3,859.82	3/4	4,202.21	3/4	4,543.46	3/4	4,884.15	3/4		3/4		3/4		3/4		3/4	
4	3,524.57	4	3,866.96	4	4,209.34	4	4,550.56	4	4,891.21	4		4		4		4		4	
1/4	3,531.70	1/4	3,874.09	1/4	4,216.47	1/4	4,557.66	1/4	4,898.26	1/4		1/4		1/4		1/4		1/4	
1/2	3,538.84	1/2	3,881.22	1/2	4,223.61	1/2	4,564.76	1/2	4,905.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,545.97	3/4	3,888.35	3/4	4,230.74	3/4	4,571.86	3/4	4,912.37	3/4		3/4		3/4		3/4		3/4	
5	3,553.10	5	3,895.49	5	4,237.87	5	4,578.96	5	4,919.43	5		5		5		5		5	
1/4	3,560.24	1/4	3,902.62	1/4	4,245.00	1/4	4,586.06	1/4	4,926.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,567.37	1/2	3,909.75	1/2	4,252.14	1/2	4,593.16	1/2	4,933.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,574.50	3/4	3,916.89	3/4	4,259.27	3/4	4,600.26	3/4	4,940.59	3/4		3/4		3/4		3/4		3/4	
6	3,581.64	6	3,924.02	6	4,266.40	6	4,607.36	6	4,947.64	6		6		6		6		6	
1/4	3,588.77	1/4	3,931.15	1/4	4,273.54	1/4	4,614.46	1/4	4,954.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,595.90	1/2	3,938.29	1/2	4,280.67	1/2	4,621.56	1/2	4,961.72	1/2		1/2		1/2		1/2		1/2	
3/4	3,603.03	3/4	3,945.42	3/4	4,287.80	3/4	4,628.66	3/4	4,968.77	3/4		3/4		3/4		3/4		3/4	
7	3,610.17	7	3,952.55	7	4,294.94	7	4,635.76	7	4,975.81	7		7		7		7		7	
1/4	3,617.30	1/4	3,959.68	1/4	4,302.04	1/4	4,642.86	1/4	4,982.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,624.43	1/2	3,966.82	1/2	4,309.14	1/2	4,649.97	1/2	4,989.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,631.57	3/4	3,973.95	3/4	4,316.24	3/4	4,657.07	3/4	4,996.77	3/4		3/4		3/4		3/4		3/4	
8	3,638.70	8	3,981.08	8	4,323.34	8	4,664.17	8	5,003.76	8		8		8		8		8	
1/4	3,645.83	1/4	3,988.22	1/4	4,330.44	1/4	4,671.27	1/4	5,009.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,652.97	1/2	3,995.35	1/2	4,337.54	1/2	4,678.37	1/2	5,016.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,660.10	3/4	4,002.48	3/4	4,344.64	3/4	4,685.47	3/4	5,022.25	3/4		3/4		3/4		3/4		3/4	
9	3,667.23	9	4,009.62	9	4,351.74	9	4,692.57	9	5,028.41	9		9		9		9		9	
1/4	3,674.36	1/4	4,016.75	1/4	4,358.84	1/4	4,699.67	1/4	5,033.39	1/4		1/4		1/4		1/4		1/4	
1/2	3,681.50	1/2	4,023.88	1/2	4,365.94	1/2	4,706.77	1/2	5,038.36	1/2		1/2		1/2		1/2		1/2	
3/4	3,688.63	3/4	4,031.01	3/4	4,373.04	3/4	4,713.87	3/4	5,043.33	3/4		3/4		3/4		3/4		3/4	
10	3,695.76	10	4,038.15	10	4,380.14	10	4,720.97	10	5,048.31	10		10		10		10		10	
1/4	3,702.90	1/4	4,045.28	1/4	4,387.24	1/4	4,728.07	1/4	5,052.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,710.03	1/2	4,052.41	1/2	4,394.34	1/2	4,735.17	1/2	5,055.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,717.16	3/4	4,059.55	3/4	4,401.44	3/4	4,742.27	3/4	5,059.67	3/4		3/4		3/4		3/4		3/4	
11	3,724.30	11	4,066.68	11	4,408.54	11	4,749.37	11	5,063.45	11		11		11		11		11	
1/4	3,731.43	1/4	4,073.81	1/4	4,415.65	1/4	4,756.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,738.56	1/2	4,080.95	1/2	4,422.75	1/2	4,763.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,745.69	3/4	4,088.08	3/4	4,429.85	3/4	4,770.68	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020

**BARGE "HSM 3312"**

formerly the

**BARGE "FMT 3312"****2 STBD****INNAGE TABLE****HERMETIC****GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.72	0	344.56	0	688.96	0	1,033.00	0	1,377.27	0	1,721.68	0	2,066.09	0	2,410.50	0	2,754.91	0	3,099.31
1/4	19.20	1/4	351.74	1/4	696.13	1/4	1,040.16	1/4	1,384.45	1/4	1,728.86	1/4	2,073.27	1/4	2,417.68	1/4	2,762.09	1/4	3,106.49
1/2	23.69	1/2	358.91	1/2	703.31	1/2	1,047.32	1/2	1,391.63	1/2	1,736.03	1/2	2,080.44	1/2	2,424.85	1/2	2,769.26	1/2	3,113.66
3/4	28.17	3/4	366.09	3/4	710.48	3/4	1,054.49	3/4	1,398.80	3/4	1,743.21	3/4	2,087.62	3/4	2,432.03	3/4	2,776.44	3/4	3,120.83
1	32.65	1	373.26	1	717.66	1	1,061.65	1	1,405.98	1	1,750.39	1	2,094.79	1	2,439.20	1	2,783.61	1	3,128.01
1/4	38.93	1/4	380.44	1/4	724.83	1/4	1,068.81	1/4	1,413.15	1/4	1,757.56	1/4	2,101.97	1/4	2,446.38	1/4	2,790.79	1/4	3,135.18
1/2	45.21	1/2	387.61	1/2	732.01	1/2	1,075.97	1/2	1,420.33	1/2	1,764.74	1/2	2,109.15	1/2	2,453.55	1/2	2,797.96	1/2	3,142.35
3/4	51.48	3/4	394.79	3/4	739.18	3/4	1,083.13	3/4	1,427.50	3/4	1,771.91	3/4	2,116.32	3/4	2,460.73	3/4	2,805.14	3/4	3,149.53
2	57.76	2	401.96	2	746.36	2	1,090.29	2	1,434.68	2	1,779.09	2	2,123.50	2	2,467.91	2	2,812.31	2	3,156.70
1/4	64.90	1/4	409.14	1/4	753.53	1/4	1,097.46	1/4	1,441.85	1/4	1,786.26	1/4	2,130.67	1/4	2,475.08	1/4	2,819.49	1/4	3,163.87
1/2	72.04	1/2	416.31	1/2	760.71	1/2	1,104.63	1/2	1,449.03	1/2	1,793.44	1/2	2,137.85	1/2	2,482.26	1/2	2,826.67	1/2	3,171.05
3/4	79.18	3/4	423.49	3/4	767.88	3/4	1,111.80	3/4	1,456.20	3/4	1,800.61	3/4	2,145.02	3/4	2,489.43	3/4	2,833.84	3/4	3,178.22
3	86.31	3	430.66	3	775.06	3	1,118.97	3	1,463.38	3	1,807.79	3	2,152.20	3	2,496.61	3	2,841.02	3	3,185.39
1/4	93.48	1/4	437.84	1/4	782.23	1/4	1,126.14	1/4	1,470.55	1/4	1,814.96	1/4	2,159.37	1/4	2,503.78	1/4	2,848.19	1/4	3,192.56
1/2	100.64	1/2	445.01	1/2	789.41	1/2	1,133.32	1/2	1,477.73	1/2	1,822.14	1/2	2,166.55	1/2	2,510.96	1/2	2,855.37	1/2	3,199.74
3/4	107.81	3/4	452.19	3/4	796.58	3/4	1,140.49	3/4	1,484.90	3/4	1,829.31	3/4	2,173.72	3/4	2,518.13	3/4	2,862.54	3/4	3,206.91
4	114.97	4	459.36	4	803.76	4	1,147.67	4	1,492.08	4	1,836.49	4	2,180.90	4	2,525.31	4	2,869.72	4	3,214.08
1/4	122.15	1/4	466.54	1/4	810.93	1/4	1,154.84	1/4	1,499.25	1/4	1,843.66	1/4	2,188.07	1/4	2,532.48	1/4	2,876.89	1/4	3,221.26
1/2	129.32	1/2	473.71	1/2	818.11	1/2	1,162.02	1/2	1,506.43	1/2	1,850.84	1/2	2,195.25	1/2	2,539.66	1/2	2,884.07	1/2	3,228.43
3/4	136.49	3/4	480.89	3/4	825.28	3/4	1,169.19	3/4	1,513.60	3/4	1,858.01	3/4	2,202.42	3/4	2,546.83	3/4	2,891.24	3/4	3,235.60
5	143.67	5	488.06	5	832.46	5	1,176.37	5	1,520.78	5	1,865.19	5	2,209.60	5	2,554.01	5	2,898.42	5	3,242.78
1/4	150.84	1/4	495.24	1/4	839.63	1/4	1,183.54	1/4	1,527.95	1/4	1,872.36	1/4	2,216.77	1/4	2,561.18	1/4	2,905.59	1/4	3,249.95
1/2	158.02	1/2	502.41	1/2	846.80	1/2	1,190.72	1/2	1,535.13	1/2	1,879.54	1/2	2,223.95	1/2	2,568.36	1/2	2,912.77	1/2	3,257.12
3/4	165.19	3/4	509.59	3/4	853.97	3/4	1,197.89	3/4	1,542.30	3/4	1,886.71	3/4	2,231.12	3/4	2,575.53	3/4	2,919.94	3/4	3,264.30
6	172.37	6	516.76	6	861.14	6	1,205.07	6	1,549.48	6	1,893.89	6	2,238.30	6	2,582.71	6	2,927.12	6	3,271.47
1/4	179.54	1/4	523.94	1/4	868.30	1/4	1,212.25	1/4	1,556.65	1/4	1,901.06	1/4	2,245.47	1/4	2,589.88	1/4	2,934.29	1/4	3,278.64
1/2	186.72	1/2	531.11	1/2	875.46	1/2	1,219.42	1/2	1,563.83	1/2	1,908.24	1/2	2,252.65	1/2	2,597.06	1/2	2,941.47	1/2	3,285.81
3/4	193.89	3/4	538.29	3/4	882.62	3/4	1,226.60	3/4	1,571.01	3/4	1,915.41	3/4	2,259.82	3/4	2,604.23	3/4	2,948.64	3/4	3,292.99
7	201.07	7	545.46	7	889.78	7	1,233.77	7	1,578.18	7	1,922.59	7	2,267.00	7	2,611.41	7	2,955.82	7	3,300.16
1/4	208.24	1/4	552.64	1/4	896.94	1/4	1,240.95	1/4	1,585.36	1/4	1,929.77	1/4	2,274.17	1/4	2,618.58	1/4	2,962.99	1/4	3,307.33
1/2	215.42	1/2	559.81	1/2	904.10	1/2	1,248.12	1/2	1,592.53	1/2	1,936.94	1/2	2,281.35	1/2	2,625.76	1/2	2,970.17	1/2	3,314.51
3/4	222.59	3/4	566.99	3/4	911.26	3/4	1,255.30	3/4	1,599.71	3/4	1,944.12	3/4	2,288.53	3/4	2,632.93	3/4	2,977.34	3/4	3,321.68
8	229.77	8	574.16	8	918.43	8	1,262.47	8	1,606.88	8	1,951.29	8	2,295.70	8	2,640.11	8	2,984.52	8	3,328.85
1/4	236.94	1/4	581.34	1/4	925.59	1/4	1,269.65	1/4	1,614.06	1/4	1,958.47	1/4	2,302.88	1/4	2,647.29	1/4	2,991.69	1/4	3,336.03
1/2	244.12	1/2	588.51	1/2	932.75	1/2	1,276.82	1/2	1,621.23	1/2	1,965.64	1/2	2,310.05	1/2	2,654.46	1/2	2,998.87	1/2	3,343.20
3/4	251.29	3/4	595.69	3/4	939.91	3/4	1,284.00	3/4	1,628.41	3/4	1,972.82	3/4	2,317.23	3/4	2,661.64	3/4	3,006.05	3/4	3,350.37
9	258.47	9	602.86	9	947.07	9	1,291.17	9	1,635.58	9	1,979.99	9	2,324.40	9	2,668.81	9	3,013.22	9	3,357.55
1/4	265.64	1/4	610.04	1/4	954.23	1/4	1,298.35	1/4	1,642.76	1/4	1,987.17	1/4	2,331.58	1/4	2,675.99	1/4	3,020.40	1/4	3,364.72
1/2	272.81	1/2	617.21	1/2	961.39	1/2	1,305.52	1/2	1,649.93	1/2	1,994.34	1/2	2,338.75	1/2	2,683.16	1/2	3,027.57	1/2	3,371.89
3/4	279.99	3/4	624.38	3/4	968.55	3/4	1,312.70	3/4	1,657.11	3/4	2,001.52	3/4	2,345.93	3/4	2,690.34	3/4	3,034.75	3/4	3,379.07
10	287.16	10	631.56	10	975.71	10	1,319.87	10	1,664.28	10	2,008.69	10	2,353.10	10	2,697.51	10	3,041.92	10	3,386.24
1/4	294.34	1/4	638.73	1/4	982.87	1/4	1,327.05	1/4	1,671.46	1/4	2,015.87	1/4	2,360.28	1/4	2,704.69	1/4	3,049.10	1/4	3,393.41
1/2	301.51	1/2	645.91	1/2	990.04	1/2	1,334.22	1/2	1,678.63	1/2	2,023.04	1/2	2,367.45	1/2	2,711.86	1/2	3,056.27	1/2	3,400.58
3/4	308.69	3/4	653.08	3/4	997.20	3/4	1,341.40	3/4	1,685.81	3/4	2,030.22	3/4	2,374.63	3/4	2,719.04	3/4	3,063.45	3/4	3,407.76
11	315.86	11	660.26	11	1,004.36	11	1,348.57	11	1,692.98	11	2,037.39	11	2,381.80	11	2,726.21	11	3,070.62	11	3,414.93
1/4	323.04	1/4	667.43	1/4	1,011.52	1/4	1,355.75	1/4	1,700.16	1/4	2,044.57	1/4	2,388.98	1/4	2,733.39	1/4	3,077.80	1/4	3,422.10
1/2	330.21	1/2	674.61	1/2	1,018.68	1/2	1,362.92	1/2	1,707.33	1/2	2,051.74	1/2	2,396.15	1/2	2,740.56	1/2	3,084.97	1/2	3,429.28
3/4	337.39	3/4	681.78	3/4	1,025.84	3/4	1,370.10	3/4	1,714.51	3/4	2,058.92	3/4	2,403.33	3/4	2,747.74	3/4	3,092.14	3/4	3,436.45

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**2 STBD**  
**INNAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,443.62	0	3,787.96	0	4,132.37	0	4,476.12	0	4,818.96	0		0		0		0		0	
1/4	3,450.80	1/4	3,795.13	1/4	4,139.54	1/4	4,483.26	1/4	4,826.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,457.97	1/2	3,802.31	1/2	4,146.72	1/2	4,490.41	1/2	4,833.24	1/2		1/2		1/2		1/2		1/2	
3/4	3,465.14	3/4	3,809.48	3/4	4,153.89	3/4	4,497.55	3/4	4,840.38	3/4		3/4		3/4		3/4		3/4	
1	3,472.32	1	3,816.66	1	4,161.07	1	4,504.69	1	4,847.53	1		1		1		1		1	
1/4	3,479.49	1/4	3,823.83	1/4	4,168.24	1/4	4,511.83	1/4	4,854.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,486.66	1/2	3,831.01	1/2	4,175.42	1/2	4,518.97	1/2	4,861.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,493.83	3/4	3,838.18	3/4	4,182.59	3/4	4,526.12	3/4	4,868.95	3/4		3/4		3/4		3/4		3/4	
2	3,501.01	2	3,845.36	2	4,189.77	2	4,533.26	2	4,876.09	2		2		2		2		2	
1/4	3,508.18	1/4	3,852.53	1/4	4,196.94	1/4	4,540.40	1/4	4,883.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,515.35	1/2	3,859.71	1/2	4,204.12	1/2	4,547.54	1/2	4,890.38	1/2		1/2		1/2		1/2		1/2	
3/4	3,522.53	3/4	3,866.88	3/4	4,211.29	3/4	4,554.69	3/4	4,897.52	3/4		3/4		3/4		3/4		3/4	
3	3,529.70	3	3,874.06	3	4,218.47	3	4,561.83	3	4,904.66	3		3		3		3		3	
1/4	3,536.87	1/4	3,881.23	1/4	4,225.64	1/4	4,568.97	1/4	4,911.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,544.05	1/2	3,888.41	1/2	4,232.82	1/2	4,576.11	1/2	4,918.86	1/2		1/2		1/2		1/2		1/2	
3/4	3,551.22	3/4	3,895.59	3/4	4,239.99	3/4	4,583.26	3/4	4,925.95	3/4		3/4		3/4		3/4		3/4	
4	3,558.39	4	3,902.76	4	4,247.17	4	4,590.40	4	4,933.05	4		4		4		4		4	
1/4	3,565.57	1/4	3,909.94	1/4	4,254.35	1/4	4,597.54	1/4	4,940.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,572.74	1/2	3,917.11	1/2	4,261.52	1/2	4,604.68	1/2	4,947.25	1/2		1/2		1/2		1/2		1/2	
3/4	3,579.91	3/4	3,924.29	3/4	4,268.70	3/4	4,611.83	3/4	4,954.34	3/4		3/4		3/4		3/4		3/4	
5	3,587.09	5	3,931.46	5	4,275.87	5	4,618.97	5	4,961.44	5		5		5		5		5	
1/4	3,594.26	1/4	3,938.64	1/4	4,283.05	1/4	4,626.11	1/4	4,968.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,601.43	1/2	3,945.81	1/2	4,290.22	1/2	4,633.25	1/2	4,975.63	1/2		1/2		1/2		1/2		1/2	
3/4	3,608.60	3/4	3,952.99	3/4	4,297.40	3/4	4,640.40	3/4	4,982.73	3/4		3/4		3/4		3/4		3/4	
6	3,615.78	6	3,960.16	6	4,304.57	6	4,647.54	6	4,989.82	6		6		6		6		6	
1/4	3,622.95	1/4	3,967.34	1/4	4,311.75	1/4	4,654.68	1/4	4,996.90	1/4		1/4		1/4		1/4		1/4	
1/2	3,630.12	1/2	3,974.51	1/2	4,318.92	1/2	4,661.82	1/2	5,003.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,637.30	3/4	3,981.69	3/4	4,326.10	3/4	4,668.97	3/4	5,011.07	3/4		3/4		3/4		3/4		3/4	
7	3,644.47	7	3,988.86	7	4,333.27	7	4,676.11	7	5,018.15	7		7		7		7		7	
1/4	3,651.64	1/4	3,996.04	1/4	4,340.41	1/4	4,683.25	1/4	5,025.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,658.82	1/2	4,003.21	1/2	4,347.56	1/2	4,690.39	1/2	5,032.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,665.99	3/4	4,010.39	3/4	4,354.70	3/4	4,697.53	3/4	5,039.24	3/4		3/4		3/4		3/4		3/4	
8	3,673.16	8	4,017.56	8	4,361.84	8	4,704.68	8	5,046.27	8		8		8		8		8	
1/4	3,680.34	1/4	4,024.74	1/4	4,368.98	1/4	4,711.82	1/4	5,052.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,687.51	1/2	4,031.91	1/2	4,376.13	1/2	4,718.96	1/2	5,058.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,694.68	3/4	4,039.09	3/4	4,383.27	3/4	4,726.10	3/4	5,064.87	3/4		3/4		3/4		3/4		3/4	
9	3,701.85	9	4,046.26	9	4,390.41	9	4,733.25	9	5,071.07	9		9		9		9		9	
1/4	3,709.03	1/4	4,053.44	1/4	4,397.55	1/4	4,740.39	1/4	5,076.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,716.21	1/2	4,060.61	1/2	4,404.70	1/2	4,747.53	1/2	5,081.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,723.38	3/4	4,067.79	3/4	4,411.84	3/4	4,754.67	3/4	5,086.08	3/4		3/4		3/4		3/4		3/4	
10	3,730.56	10	4,074.97	10	4,418.98	10	4,761.82	10	5,091.09	10		10		10		10		10	
1/4	3,737.73	1/4	4,082.14	1/4	4,426.12	1/4	4,768.96	1/4	5,094.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,744.91	1/2	4,089.32	1/2	4,433.27	1/2	4,776.10	1/2	5,098.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,752.08	3/4	4,096.49	3/4	4,440.41	3/4	4,783.24	3/4	5,102.51	3/4		3/4		3/4		3/4		3/4	
11	3,759.26	11	4,103.67	11	4,447.55	11	4,790.39	11	5,106.32	11		11		11		11		11	
1/4	3,766.43	1/4	4,110.84	1/4	4,454.69	1/4	4,797.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,773.61	1/2	4,118.02	1/2	4,461.84	1/2	4,804.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,780.78	3/4	4,125.19	3/4	4,468.98	3/4	4,811.81	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020



# BARGE "HSM 3312"

formerly the

## 3 PORT INNAGE TABLE

### BARGE "FMT 3312"

### HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.62	0	342.19	0	683.70	0	1,015.56	0	1,352.36	0	1,693.76	0	2,035.16	0	2,376.56	0	2,717.93	0	3,059.46
1/4	19.07	1/4	349.31	1/4	690.81	1/4	1,022.37	1/4	1,359.47	1/4	1,700.87	1/4	2,042.27	1/4	2,383.67	1/4	2,725.04	1/4	3,066.56
1/2	23.52	1/2	356.44	1/2	697.92	1/2	1,029.17	1/2	1,366.59	1/2	1,707.99	1/2	2,049.39	1/2	2,390.79	1/2	2,732.15	1/2	3,073.67
3/4	27.98	3/4	363.56	3/4	705.04	3/4	1,035.97	3/4	1,373.70	3/4	1,715.10	3/4	2,056.50	3/4	2,397.90	3/4	2,739.26	3/4	3,080.78
1	32.43	1	370.69	1	712.15	1	1,042.78	1	1,380.81	1	1,722.21	1	2,063.61	1	2,405.01	1	2,746.37	1	3,087.89
1/4	38.66	1/4	377.80	1/4	719.26	1/4	1,049.58	1/4	1,387.92	1/4	1,729.32	1/4	2,070.72	1/4	2,412.12	1/4	2,753.49	1/4	3,094.99
1/2	44.90	1/2	384.92	1/2	726.38	1/2	1,056.38	1/2	1,395.04	1/2	1,736.44	1/2	2,077.84	1/2	2,419.24	1/2	2,760.60	1/2	3,102.10
3/4	51.13	3/4	392.03	3/4	733.49	3/4	1,063.19	3/4	1,402.15	3/4	1,743.55	3/4	2,084.95	3/4	2,426.35	3/4	2,767.71	3/4	3,109.21
2	57.36	2	399.14	2	740.61	2	1,069.99	2	1,409.26	2	1,750.66	2	2,092.06	2	2,433.46	2	2,774.82	2	3,116.32
1/4	64.45	1/4	406.26	1/4	747.72	1/4	1,076.80	1/4	1,416.37	1/4	1,757.77	1/4	2,099.17	1/4	2,440.57	1/4	2,781.93	1/4	3,123.41
1/2	71.54	1/2	413.37	1/2	754.83	1/2	1,083.61	1/2	1,423.49	1/2	1,764.89	1/2	2,106.29	1/2	2,447.69	1/2	2,789.04	1/2	3,130.50
3/4	78.63	3/4	420.48	3/4	761.95	3/4	1,090.42	3/4	1,430.60	3/4	1,772.00	3/4	2,113.40	3/4	2,454.80	3/4	2,796.16	3/4	3,137.59
3	85.72	3	427.60	3	769.06	3	1,097.24	3	1,437.71	3	1,779.11	3	2,120.51	3	2,461.91	3	2,803.27	3	3,144.68
1/4	92.83	1/4	434.71	1/4	776.17	1/4	1,104.12	1/4	1,444.82	1/4	1,786.22	1/4	2,127.62	1/4	2,469.02	1/4	2,810.38	1/4	3,151.77
1/2	99.95	1/2	441.83	1/2	783.29	1/2	1,111.00	1/2	1,451.94	1/2	1,793.34	1/2	2,134.74	1/2	2,476.14	1/2	2,817.49	1/2	3,158.86
3/4	107.06	3/4	448.94	3/4	790.40	3/4	1,117.88	3/4	1,459.05	3/4	1,800.45	3/4	2,141.85	3/4	2,483.25	3/4	2,824.60	3/4	3,165.95
4	114.18	4	456.05	4	797.52	4	1,124.76	4	1,466.16	4	1,807.56	4	2,148.96	4	2,490.36	4	2,831.71	4	3,173.04
1/4	121.30	1/4	463.17	1/4	804.40	1/4	1,131.87	1/4	1,473.27	1/4	1,814.67	1/4	2,156.07	1/4	2,497.47	1/4	2,838.82	1/4	3,180.13
1/2	128.43	1/2	470.28	1/2	811.28	1/2	1,138.99	1/2	1,480.39	1/2	1,821.79	1/2	2,163.19	1/2	2,504.58	1/2	2,845.94	1/2	3,187.22
3/4	135.55	3/4	477.39	3/4	818.16	3/4	1,146.10	3/4	1,487.50	3/4	1,828.90	3/4	2,170.30	3/4	2,511.70	3/4	2,853.05	3/4	3,194.31
5	142.68	5	484.51	5	825.04	5	1,153.21	5	1,494.61	5	1,836.01	5	2,177.41	5	2,518.81	5	2,860.16	5	3,201.40
1/4	149.80	1/4	491.62	1/4	831.85	1/4	1,160.32	1/4	1,501.72	1/4	1,843.12	1/4	2,184.52	1/4	2,525.92	1/4	2,867.27	1/4	3,208.49
1/2	156.93	1/2	498.74	1/2	838.67	1/2	1,167.44	1/2	1,508.84	1/2	1,850.24	1/2	2,191.64	1/2	2,533.03	1/2	2,874.38	1/2	3,215.58
3/4	164.05	3/4	505.85	3/4	845.48	3/4	1,174.55	3/4	1,515.95	3/4	1,857.35	3/4	2,198.75	3/4	2,540.14	3/4	2,881.49	3/4	3,222.67
6	171.18	6	512.96	6	852.29	6	1,181.66	6	1,523.06	6	1,864.46	6	2,205.86	6	2,547.25	6	2,888.60	6	3,229.76
1/4	178.30	1/4	520.08	1/4	859.09	1/4	1,188.77	1/4	1,530.17	1/4	1,871.57	1/4	2,212.97	1/4	2,554.36	1/4	2,895.72	1/4	3,236.85
1/2	185.43	1/2	527.19	1/2	865.89	1/2	1,195.89	1/2	1,537.29	1/2	1,878.69	1/2	2,220.09	1/2	2,561.48	1/2	2,902.83	1/2	3,243.94
3/4	192.55	3/4	534.31	3/4	872.70	3/4	1,203.00	3/4	1,544.40	3/4	1,885.80	3/4	2,227.20	3/4	2,568.59	3/4	2,909.94	3/4	3,251.03
7	199.68	7	541.42	7	879.50	7	1,210.11	7	1,551.51	7	1,892.91	7	2,234.31	7	2,575.70	7	2,917.05	7	3,258.12
1/4	206.80	1/4	548.53	1/4	886.30	1/4	1,217.22	1/4	1,558.62	1/4	1,900.02	1/4	2,241.42	1/4	2,582.81	1/4	2,924.17	1/4	3,265.21
1/2	213.93	1/2	555.65	1/2	893.11	1/2	1,224.34	1/2	1,565.74	1/2	1,907.14	1/2	2,248.54	1/2	2,589.92	1/2	2,931.30	1/2	3,272.30
3/4	221.05	3/4	562.76	3/4	899.91	3/4	1,231.45	3/4	1,572.85	3/4	1,914.25	3/4	2,255.65	3/4	2,597.03	3/4	2,938.42	3/4	3,279.40
8	228.18	8	569.87	8	906.71	8	1,238.56	8	1,579.96	8	1,921.36	8	2,262.76	8	2,604.14	8	2,945.54	8	3,286.49
1/4	235.31	1/4	576.99	1/4	913.52	1/4	1,245.67	1/4	1,587.07	1/4	1,928.47	1/4	2,269.87	1/4	2,611.26	1/4	2,952.67	1/4	3,293.58
1/2	242.43	1/2	584.10	1/2	920.32	1/2	1,252.79	1/2	1,594.19	1/2	1,935.59	1/2	2,276.99	1/2	2,618.37	1/2	2,959.79	1/2	3,300.67
3/4	249.56	3/4	591.22	3/4	927.12	3/4	1,259.90	3/4	1,601.30	3/4	1,942.70	3/4	2,284.10	3/4	2,625.48	3/4	2,966.91	3/4	3,307.76
9	256.68	9	598.33	9	933.92	9	1,267.01	9	1,608.41	9	1,949.81	9	2,291.21	9	2,632.59	9	2,974.04	9	3,314.85
1/4	263.81	1/4	605.44	1/4	940.73	1/4	1,274.12	1/4	1,615.52	1/4	1,956.92	1/4	2,298.32	1/4	2,639.70	1/4	2,981.16	1/4	3,321.95
1/2	270.93	1/2	612.56	1/2	947.53	1/2	1,281.24	1/2	1,622.64	1/2	1,964.04	1/2	2,305.44	1/2	2,646.81	1/2	2,988.28	1/2	3,329.04
3/4	278.06	3/4	619.67	3/4	954.33	3/4	1,288.35	3/4	1,629.75	3/4	1,971.15	3/4	2,312.55	3/4	2,653.93	3/4	2,995.41	3/4	3,336.13
10	285.18	10	626.78	10	961.14	10	1,295.46	10	1,636.86	10	1,978.26	10	2,319.66	10	2,661.04	10	3,002.53	10	3,343.22
1/4	292.31	1/4	633.90	1/4	967.94	1/4	1,302.57	1/4	1,643.97	1/4	1,985.37	1/4	2,326.77	1/4	2,668.15	1/4	3,009.65	1/4	3,347.55
1/2	299.43	1/2	641.01	1/2	974.74	1/2	1,309.69	1/2	1,651.09	1/2	1,992.49	1/2	2,333.89	1/2	2,675.26	1/2	3,016.78	1/2	3,351.89
3/4	306.56	3/4	648.13	3/4	981.55	3/4	1,316.80	3/4	1,658.20	3/4	1,999.60	3/4	2,341.00	3/4	2,682.37	3/4	3,023.90	3/4	3,356.22
11	313.68	11	655.24	11	988.35	11	1,323.91	11	1,665.31	11	2,006.71	11	2,348.11	11	2,689.48	11	3,031.03	11	3,360.55
1/4	320.81	1/4	662.35	1/4	995.15	1/4	1,331.02	1/4	1,672.42	1/4	2,013.82	1/4	2,355.22	1/4	2,696.59	1/4	3,038.13	1/4	3,364.89
1/2	327.94	1/2	669.47	1/2	1,001.96	1/2	1,338.14	1/2	1,679.54	1/2	2,020.94	1/2	2,362.34	1/2	2,703.71	1/2	3,045.24	1/2	3,369.22
3/4	335.06	3/4	676.58	3/4	1,008.76	3/4	1,345.25	3/4	1,686.65	3/4	2,028.05	3/4	2,369.45	3/4	2,710.82	3/4	3,052.35	3/4	3,373.55

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092

Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

## 3 PORT INNAGE TABLE HERMETIC

GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,377.88	0	3,586.93	0	3,796.54	0	4,005.77	0	4,214.46	0		0		0		0		0	
1/4	3,382.24	1/4	3,591.29	1/4	3,800.90	1/4	4,010.11	1/4	4,218.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,386.59	1/2	3,595.66	1/2	3,805.27	1/2	4,014.46	1/2	4,223.16	1/2		1/2		1/2		1/2		1/2	
3/4	3,390.94	3/4	3,600.03	3/4	3,809.64	3/4	4,018.81	3/4	4,227.50	3/4		3/4		3/4		3/4		3/4	
1	3,395.29	1	3,604.39	1	3,814.01	1	4,023.16	1	4,231.85	1		1		1		1		1	
1/4	3,399.64	1/4	3,608.76	1/4	3,818.37	1/4	4,027.51	1/4	4,236.20	1/4		1/4		1/4		1/4		1/4	
1/2	3,403.99	1/2	3,613.13	1/2	3,822.74	1/2	4,031.85	1/2	4,240.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,408.34	3/4	3,617.49	3/4	3,827.11	3/4	4,036.20	3/4	4,244.90	3/4		3/4		3/4		3/4		3/4	
2	3,412.69	2	3,621.86	2	3,831.47	2	4,040.55	2	4,249.24	2		2		2		2		2	
1/4	3,417.04	1/4	3,626.23	1/4	3,835.84	1/4	4,044.90	1/4	4,253.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,421.39	1/2	3,630.60	1/2	3,840.21	1/2	4,049.24	1/2	4,257.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,425.75	3/4	3,634.96	3/4	3,844.57	3/4	4,053.59	3/4	4,262.29	3/4		3/4		3/4		3/4		3/4	
3	3,430.10	3	3,639.33	3	3,848.94	3	4,057.94	3	4,266.63	3		3		3		3		3	
1/4	3,434.45	1/4	3,643.70	1/4	3,853.31	1/4	4,062.29	1/4	4,270.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,438.80	1/2	3,648.06	1/2	3,857.67	1/2	4,066.64	1/2	4,275.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,443.15	3/4	3,652.43	3/4	3,862.04	3/4	4,070.98	3/4	4,279.60	3/4		3/4		3/4		3/4		3/4	
4	3,447.50	4	3,656.80	4	3,866.41	4	4,075.33	4	4,283.92	4		4		4		4		4	
1/4	3,451.85	1/4	3,661.16	1/4	3,870.77	1/4	4,079.68	1/4	4,288.24	1/4		1/4		1/4		1/4		1/4	
1/2	3,456.20	1/2	3,665.53	1/2	3,875.14	1/2	4,084.03	1/2	4,292.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,460.55	3/4	3,669.90	3/4	3,879.51	3/4	4,088.37	3/4	4,296.88	3/4		3/4		3/4		3/4		3/4	
5	3,464.91	5	3,674.26	5	3,883.88	5	4,092.72	5	4,301.20	5		5		5		5		5	
1/4	3,469.26	1/4	3,678.63	1/4	3,888.24	1/4	4,097.07	1/4	4,305.51	1/4		1/4		1/4		1/4		1/4	
1/2	3,473.61	1/2	3,683.00	1/2	3,892.61	1/2	4,101.42	1/2	4,309.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,477.96	3/4	3,687.37	3/4	3,896.98	3/4	4,105.77	3/4	4,314.15	3/4		3/4		3/4		3/4		3/4	
6	3,482.31	6	3,691.73	6	3,901.34	6	4,110.11	6	4,318.46	6		6		6		6		6	
1/4	3,486.66	1/4	3,696.10	1/4	3,905.71	1/4	4,114.46	1/4	4,322.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,491.01	1/2	3,700.47	1/2	3,910.08	1/2	4,118.81	1/2	4,327.08	1/2		1/2		1/2		1/2		1/2	
3/4	3,495.36	3/4	3,704.83	3/4	3,914.44	3/4	4,123.16	3/4	4,331.38	3/4		3/4		3/4		3/4		3/4	
7	3,499.71	7	3,709.20	7	3,918.81	7	4,127.51	7	4,335.69	7		7		7		7		7	
1/4	3,504.07	1/4	3,713.57	1/4	3,923.16	1/4	4,131.85	1/4	4,339.94	1/4		1/4		1/4		1/4		1/4	
1/2	3,508.42	1/2	3,717.93	1/2	3,927.51	1/2	4,136.20	1/2	4,344.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,512.77	3/4	3,722.30	3/4	3,931.85	3/4	4,140.55	3/4	4,348.44	3/4		3/4		3/4		3/4		3/4	
8	3,517.12	8	3,726.67	8	3,936.20	8	4,144.90	8	4,352.69	8		8		8		8		8	
1/4	3,521.47	1/4	3,731.03	1/4	3,940.55	1/4	4,149.24	1/4	4,356.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,525.82	1/2	3,735.40	1/2	3,944.90	1/2	4,153.59	1/2	4,359.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,530.17	3/4	3,739.77	3/4	3,949.25	3/4	4,157.94	3/4	4,362.98	3/4		3/4		3/4		3/4		3/4	
9	3,534.52	9	3,744.13	9	3,953.59	9	4,162.29	9	4,366.41	9		9		9		9		9	
1/4	3,538.89	1/4	3,748.50	1/4	3,957.94	1/4	4,166.64	1/4	4,368.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,543.26	1/2	3,752.87	1/2	3,962.29	1/2	4,170.98	1/2	4,370.90	1/2		1/2		1/2		1/2		1/2	
3/4	3,547.62	3/4	3,757.24	3/4	3,966.64	3/4	4,175.33	3/4	4,373.14	3/4		3/4		3/4		3/4		3/4	
10	3,551.99	10	3,761.60	10	3,970.98	10	4,179.68	10	4,375.38	10		10		10		10		10	
1/4	3,556.36	1/4	3,765.97	1/4	3,975.33	1/4	4,184.03	1/4	4,377.09	1/4		1/4		1/4		1/4		1/4	
1/2	3,560.72	1/2	3,770.34	1/2	3,979.68	1/2	4,188.37	1/2	4,378.79	1/2		1/2		1/2		1/2		1/2	
3/4	3,565.09	3/4	3,774.70	3/4	3,984.03	3/4	4,192.72	3/4	4,380.50	3/4		3/4		3/4		3/4		3/4	
11	3,569.46	11	3,779.07	11	3,988.38	11	4,197.07	11	4,382.21	11		11		11		11		11	
1/4	3,573.83	1/4	3,783.44	1/4	3,992.72	1/4	4,201.42	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,578.19	1/2	3,787.80	1/2	3,997.07	1/2	4,205.77	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,582.56	3/4	3,792.17	3/4	4,001.42	3/4	4,210.11	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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Pearland, Texas 77588

<http://www.pmacorp.net>

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020





# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

### 3 STBD

### INNAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.61	0	342.02	0	683.87	0	1,025.37	0	1,367.09	0	1,708.95	0	2,050.82	0	2,392.68	0	2,734.27	0	3,075.26
1/4	19.06	1/4	349.14	1/4	690.99	1/4	1,032.48	1/4	1,374.22	1/4	1,716.08	1/4	2,057.94	1/4	2,399.80	1/4	2,741.38	1/4	3,082.37
1/2	23.51	1/2	356.26	1/2	698.11	1/2	1,039.58	1/2	1,381.34	1/2	1,723.20	1/2	2,065.06	1/2	2,406.92	1/2	2,748.48	1/2	3,089.47
3/4	27.96	3/4	363.38	3/4	705.24	3/4	1,046.69	3/4	1,388.46	3/4	1,730.32	3/4	2,072.18	3/4	2,414.04	3/4	2,755.58	3/4	3,096.58
1	32.41	1	370.51	1	712.36	1	1,053.80	1	1,395.58	1	1,737.44	1	2,079.30	1	2,421.16	1	2,762.69	1	3,103.68
1/4	38.64	1/4	377.63	1/4	719.48	1/4	1,060.91	1/4	1,402.70	1/4	1,744.56	1/4	2,086.43	1/4	2,428.29	1/4	2,769.79	1/4	3,110.78
1/2	44.87	1/2	384.75	1/2	726.60	1/2	1,068.02	1/2	1,409.83	1/2	1,751.69	1/2	2,093.55	1/2	2,435.41	1/2	2,776.90	1/2	3,117.89
3/4	51.10	3/4	391.87	3/4	733.72	3/4	1,075.13	3/4	1,416.95	3/4	1,758.81	3/4	2,100.67	3/4	2,442.53	3/4	2,784.00	3/4	3,124.99
2	57.33	2	398.99	2	740.84	2	1,082.23	2	1,424.07	2	1,765.93	2	2,107.79	2	2,449.65	2	2,791.10	2	3,132.10
1/4	64.42	1/4	406.12	1/4	747.97	1/4	1,089.35	1/4	1,431.19	1/4	1,773.05	1/4	2,114.91	1/4	2,456.77	1/4	2,798.21	1/4	3,139.18
1/2	71.51	1/2	413.24	1/2	755.09	1/2	1,096.47	1/2	1,438.31	1/2	1,780.18	1/2	2,122.04	1/2	2,463.90	1/2	2,805.31	1/2	3,146.27
3/4	78.59	3/4	420.36	3/4	762.21	3/4	1,103.58	3/4	1,445.44	3/4	1,787.30	3/4	2,129.16	3/4	2,471.02	3/4	2,812.42	3/4	3,153.35
3	85.68	3	427.48	3	769.33	3	1,110.70	3	1,452.56	3	1,794.42	3	2,136.28	3	2,478.14	3	2,819.52	3	3,160.44
1/4	92.79	1/4	434.60	1/4	776.45	1/4	1,117.82	1/4	1,459.68	1/4	1,801.54	1/4	2,143.40	1/4	2,485.26	1/4	2,826.62	1/4	3,167.53
1/2	99.90	1/2	441.73	1/2	783.58	1/2	1,124.94	1/2	1,466.80	1/2	1,808.66	1/2	2,150.52	1/2	2,492.39	1/2	2,833.73	1/2	3,174.61
3/4	107.01	3/4	448.85	3/4	790.70	3/4	1,132.06	3/4	1,473.93	3/4	1,815.79	3/4	2,157.65	3/4	2,499.51	3/4	2,840.83	3/4	3,181.70
4	114.12	4	455.97	4	797.82	4	1,139.19	4	1,481.05	4	1,822.91	4	2,164.77	4	2,506.63	4	2,847.94	4	3,188.79
1/4	121.24	1/4	463.09	1/4	804.94	1/4	1,146.31	1/4	1,488.17	1/4	1,830.03	1/4	2,171.89	1/4	2,513.75	1/4	2,855.04	1/4	3,195.87
1/2	128.36	1/2	470.21	1/2	812.06	1/2	1,153.43	1/2	1,495.29	1/2	1,837.15	1/2	2,179.01	1/2	2,520.88	1/2	2,862.14	1/2	3,202.96
3/4	135.48	3/4	477.33	3/4	819.19	3/4	1,160.55	3/4	1,502.41	3/4	1,844.27	3/4	2,186.14	3/4	2,528.00	3/4	2,869.25	3/4	3,210.05
5	142.61	5	484.46	5	826.31	5	1,167.67	5	1,509.54	5	1,851.40	5	2,193.26	5	2,535.12	5	2,876.35	5	3,217.13
1/4	149.73	1/4	491.58	1/4	833.42	1/4	1,174.80	1/4	1,516.66	1/4	1,858.52	1/4	2,200.38	1/4	2,542.25	1/4	2,883.46	1/4	3,224.22
1/2	156.85	1/2	498.70	1/2	840.54	1/2	1,181.92	1/2	1,523.78	1/2	1,865.64	1/2	2,207.50	1/2	2,549.37	1/2	2,890.56	1/2	3,231.31
3/4	163.97	3/4	505.82	3/4	847.66	3/4	1,189.04	3/4	1,530.90	3/4	1,872.76	3/4	2,214.62	3/4	2,556.49	3/4	2,897.66	3/4	3,238.39
6	171.09	6	512.94	6	854.77	6	1,196.16	6	1,538.02	6	1,879.88	6	2,221.75	6	2,563.62	6	2,904.77	6	3,245.48
1/4	178.21	1/4	520.07	1/4	861.88	1/4	1,203.29	1/4	1,545.15	1/4	1,887.01	1/4	2,228.87	1/4	2,570.74	1/4	2,911.87	1/4	3,252.57
1/2	185.34	1/2	527.19	1/2	868.99	1/2	1,210.41	1/2	1,552.27	1/2	1,894.13	1/2	2,235.99	1/2	2,577.87	1/2	2,918.98	1/2	3,259.65
3/4	192.46	3/4	534.31	3/4	876.10	3/4	1,217.53	3/4	1,559.39	3/4	1,901.25	3/4	2,243.11	3/4	2,584.99	3/4	2,926.08	3/4	3,266.74
7	199.58	7	541.43	7	883.21	7	1,224.65	7	1,566.51	7	1,908.37	7	2,250.23	7	2,592.11	7	2,933.18	7	3,273.83
1/4	206.70	1/4	548.55	1/4	890.31	1/4	1,231.77	1/4	1,573.63	1/4	1,915.50	1/4	2,257.36	1/4	2,599.24	1/4	2,940.29	1/4	3,280.91
1/2	213.82	1/2	555.68	1/2	897.42	1/2	1,238.90	1/2	1,580.76	1/2	1,922.62	1/2	2,264.48	1/2	2,606.36	1/2	2,947.39	1/2	3,288.00
3/4	220.95	3/4	562.80	3/4	904.53	3/4	1,246.02	3/4	1,587.88	3/4	1,929.74	3/4	2,271.60	3/4	2,613.48	3/4	2,954.50	3/4	3,295.09
8	228.07	8	569.92	8	911.64	8	1,253.14	8	1,595.00	8	1,936.86	8	2,278.72	8	2,620.61	8	2,961.60	8	3,302.17
1/4	235.19	1/4	577.04	1/4	918.75	1/4	1,260.26	1/4	1,602.12	1/4	1,943.98	1/4	2,285.84	1/4	2,627.71	1/4	2,968.70	1/4	3,309.26
1/2	242.31	1/2	584.16	1/2	925.85	1/2	1,267.38	1/2	1,609.25	1/2	1,951.11	1/2	2,292.97	1/2	2,634.82	1/2	2,975.81	1/2	3,316.35
3/4	249.43	3/4	591.28	3/4	932.96	3/4	1,274.51	3/4	1,616.37	3/4	1,958.23	3/4	2,300.09	3/4	2,641.92	3/4	2,982.91	3/4	3,323.43
9	256.56	9	598.41	9	940.07	9	1,281.63	9	1,623.49	9	1,965.35	9	2,307.21	9	2,649.02	9	2,990.02	9	3,330.52
1/4	263.68	1/4	605.53	1/4	947.18	1/4	1,288.75	1/4	1,630.61	1/4	1,972.47	1/4	2,314.33	1/4	2,656.13	1/4	2,997.12	1/4	3,337.61
1/2	270.80	1/2	612.65	1/2	954.29	1/2	1,295.87	1/2	1,637.73	1/2	1,979.59	1/2	2,321.46	1/2	2,663.23	1/2	3,004.22	1/2	3,344.69
3/4	277.92	3/4	619.77	3/4	961.39	3/4	1,302.99	3/4	1,644.86	3/4	1,986.72	3/4	2,328.58	3/4	2,670.34	3/4	3,011.33	3/4	3,351.78
10	285.04	10	626.89	10	968.50	10	1,310.12	10	1,651.98	10	1,993.84	10	2,335.70	10	2,677.44	10	3,018.43	10	3,358.87
1/4	292.17	1/4	634.02	1/4	975.61	1/4	1,317.24	1/4	1,659.10	1/4	2,000.96	1/4	2,342.82	1/4	2,684.54	1/4	3,025.54	1/4	3,365.96
1/2	299.29	1/2	641.14	1/2	982.72	1/2	1,324.36	1/2	1,666.22	1/2	2,008.08	1/2	2,349.94	1/2	2,691.65	1/2	3,032.64	1/2	3,373.05
3/4	306.41	3/4	648.26	3/4	989.83	3/4	1,331.48	3/4	1,673.34	3/4	2,015.20	3/4	2,357.07	3/4	2,698.75	3/4	3,039.74	3/4	3,379.14
11	313.53	11	655.38	11	996.94	11	1,338.61	11	1,680.47	11	2,022.33	11	2,364.19	11	2,705.86	11	3,046.85	11	3,386.23
1/4	320.65	1/4	662.50	1/4	1,004.04	1/4	1,345.73	1/4	1,687.59	1/4	2,029.45	1/4	2,371.31	1/4	2,712.96	1/4	3,053.95	1/4	3,393.32
1/2	327.77	1/2	669.63	1/2	1,011.15	1/2	1,352.85	1/2	1,694.71	1/2	2,036.57	1/2	2,378.43	1/2	2,720.06	1/2	3,061.06	1/2	3,399.41
3/4	334.90	3/4	676.75	3/4	1,018.26	3/4	1,359.97	3/4	1,701.83	3/4	2,043.69	3/4	2,385.55	3/4	2,727.17	3/4	3,068.16	3/4	3,405.50

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**3 STBD**  
**INNAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,393.52	0	3,603.18	0	3,812.84	0	4,022.12	0	4,230.87	0		0		0		0		0	
1/4	3,397.89	1/4	3,607.55	1/4	3,817.21	1/4	4,026.47	1/4	4,235.22	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,402.26	1/2	3,611.92	1/2	3,821.58	1/2	4,030.82	1/2	4,239.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,406.63	3/4	3,616.29	3/4	3,825.95	3/4	4,035.17	3/4	4,243.92	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,411.00	1	3,620.66	1	3,830.31	1	4,039.52	1	4,248.27	1		1		1		1		1	
1/4	3,415.36	1/4	3,625.02	1/4	3,834.68	1/4	4,043.87	1/4	4,252.61	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,419.73	1/2	3,629.39	1/2	3,839.05	1/2	4,048.22	1/2	4,256.96	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,424.10	3/4	3,633.76	3/4	3,843.42	3/4	4,052.56	3/4	4,261.31	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,428.47	2	3,638.13	2	3,847.79	2	4,056.91	2	4,265.66	2		2		2		2		2	
1/4	3,432.84	1/4	3,642.50	1/4	3,852.15	1/4	4,061.26	1/4	4,270.01	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,437.20	1/2	3,646.86	1/2	3,856.52	1/2	4,065.61	1/2	4,274.36	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,441.57	3/4	3,651.23	3/4	3,860.89	3/4	4,069.96	3/4	4,278.71	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,445.94	3	3,655.60	3	3,865.26	3	4,074.31	3	4,283.06	3		3		3		3		3	
1/4	3,450.31	1/4	3,659.97	1/4	3,869.63	1/4	4,078.66	1/4	4,287.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,454.68	1/2	3,664.33	1/2	3,873.99	1/2	4,083.01	1/2	4,291.70	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,459.04	3/4	3,668.70	3/4	3,878.36	3/4	4,087.36	3/4	4,296.02	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,463.41	4	3,673.07	4	3,882.73	4	4,091.70	4	4,300.34	4		4		4		4		4	
1/4	3,467.78	1/4	3,677.44	1/4	3,887.10	1/4	4,096.05	1/4	4,304.66	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,472.15	1/2	3,681.81	1/2	3,891.47	1/2	4,100.40	1/2	4,308.98	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,476.51	3/4	3,686.17	3/4	3,895.83	3/4	4,104.75	3/4	4,313.31	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,480.88	5	3,690.54	5	3,900.20	5	4,109.10	5	4,317.63	5		5		5		5		5	
1/4	3,485.25	1/4	3,694.91	1/4	3,904.57	1/4	4,113.45	1/4	4,321.95	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,489.62	1/2	3,699.28	1/2	3,908.94	1/2	4,117.80	1/2	4,326.26	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,493.99	3/4	3,703.65	3/4	3,913.30	3/4	4,122.15	3/4	4,330.58	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,498.35	6	3,708.01	6	3,917.67	6	4,126.50	6	4,334.90	6		6		6		6		6	
1/4	3,502.72	1/4	3,712.38	1/4	3,922.04	1/4	4,130.84	1/4	4,339.21	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,507.09	1/2	3,716.75	1/2	3,926.41	1/2	4,135.19	1/2	4,343.51	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,511.46	3/4	3,721.12	3/4	3,930.78	3/4	4,139.54	3/4	4,347.82	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,515.83	7	3,725.49	7	3,935.14	7	4,143.89	7	4,352.13	7		7		7		7		7	
1/4	3,520.19	1/4	3,729.85	1/4	3,939.49	1/4	4,148.24	1/4	4,356.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,524.56	1/2	3,734.22	1/2	3,943.84	1/2	4,152.59	1/2	4,360.63	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,528.93	3/4	3,738.59	3/4	3,948.19	3/4	4,156.94	3/4	4,364.89	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,533.30	8	3,742.96	8	3,952.54	8	4,161.29	8	4,369.14	8		8		8		8		8	
1/4	3,537.67	1/4	3,747.32	1/4	3,956.89	1/4	4,165.64	1/4	4,372.57	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,542.03	1/2	3,751.69	1/2	3,961.24	1/2	4,169.99	1/2	4,376.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,546.40	3/4	3,756.06	3/4	3,965.59	3/4	4,174.33	3/4	4,379.43	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,550.77	9	3,760.43	9	3,969.94	9	4,178.68	9	4,382.86	9		9		9		9		9	
1/4	3,555.14	1/4	3,764.80	1/4	3,974.28	1/4	4,183.03	1/4	4,385.11	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,559.51	1/2	3,769.16	1/2	3,978.63	1/2	4,187.38	1/2	4,387.35	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,563.87	3/4	3,773.53	3/4	3,982.98	3/4	4,191.73	3/4	4,389.60	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,568.24	10	3,777.90	10	3,987.33	10	4,196.08	10	4,391.84	10		10		10		10		10	
1/4	3,572.61	1/4	3,782.27	1/4	3,991.68	1/4	4,200.43	1/4	4,393.55	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,576.98	1/2	3,786.64	1/2	3,996.03	1/2	4,204.78	1/2	4,395.25	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,581.34	3/4	3,791.00	3/4	4,000.38	3/4	4,209.13	3/4	4,396.96	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,585.71	11	3,795.37	11	4,004.73	11	4,213.47	11	4,398.66	11		11		11		11		11	
1/4	3,590.08	1/4	3,799.74	1/4	4,009.08	1/4	4,217.82	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,594.45	1/2	3,804.11	1/2	4,013.42	1/2	4,222.17	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,598.82	3/4	3,808.48	3/4	4,017.77	3/4	4,226.52	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>





# BARGE "HSM 3312"

formerly the



## BARGE "FMT 3312" ULLAGE (HERMETIC)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 7'-00"  
 DIFF. = 5'-00" (DOWN BY STERN)

THE CORRECTION FOR 5'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

July 22, 2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

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**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**1 PORT**  
**ULLAGE TABLE**

**HERMETIC**  
**GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,875.77	0	4,534.37	0	4,192.36	0	3,849.08	0	3,505.84	0	3,162.65	0	2,819.42	0	2,476.13
1/4		1/4		1/4	4,868.69	1/4	4,527.25	1/4	4,185.21	1/4	3,841.93	1/4	3,498.69	1/4	3,155.50	1/4	2,812.27	1/4	2,468.98
1/2		1/2		1/2	4,861.62	1/2	4,520.13	1/2	4,178.06	1/2	3,834.78	1/2	3,491.54	1/2	3,148.35	1/2	2,805.11	1/2	2,461.83
3/4		3/4		3/4	4,854.55	3/4	4,513.01	3/4	4,170.91	3/4	3,827.63	3/4	3,484.39	3/4	3,141.20	3/4	2,797.96	3/4	2,454.67
1		1		1	4,847.47	1	4,505.90	1	4,163.76	1	3,820.48	1	3,477.24	1	3,134.05	1	2,790.81	1	2,447.52
1/4		1/4		1/4	4,840.40	1/4	4,498.78	1/4	4,156.61	1/4	3,813.32	1/4	3,470.09	1/4	3,126.90	1/4	2,783.66	1/4	2,440.37
1/2		1/2		1/2	4,833.32	1/2	4,491.66	1/2	4,149.45	1/2	3,806.17	1/2	3,462.94	1/2	3,119.75	1/2	2,776.51	1/2	2,433.22
3/4		3/4		3/4	4,826.25	3/4	4,484.54	3/4	4,142.30	3/4	3,799.02	3/4	3,455.79	3/4	3,112.60	3/4	2,769.36	3/4	2,426.06
2		2		2	4,819.13	2	4,477.42	2	4,135.15	2	3,791.87	2	3,448.64	2	3,105.45	2	2,762.20	2	2,418.91
1/4		1/4		1/4	4,812.01	1/4	4,470.30	1/4	4,128.00	1/4	3,784.72	1/4	3,441.49	1/4	3,098.30	1/4	2,755.05	1/4	2,411.76
1/2		1/2		1/2	4,804.89	1/2	4,463.18	1/2	4,120.85	1/2	3,777.57	1/2	3,434.34	1/2	3,091.15	1/2	2,747.90	1/2	2,404.61
3/4		3/4		3/4	4,797.77	3/4	4,456.06	3/4	4,113.70	3/4	3,770.41	3/4	3,427.19	3/4	3,084.00	3/4	2,740.75	3/4	2,397.46
3		3		3	4,790.66	3	4,448.94	3	4,106.54	3	3,763.26	3	3,420.04	3	3,076.85	3	2,733.60	3	2,390.30
1/4		1/4		1/4	4,783.54	1/4	4,441.82	1/4	4,099.39	1/4	3,756.11	1/4	3,412.89	1/4	3,069.70	1/4	2,726.45	1/4	2,383.15
1/2		1/2		1/2	4,776.42	1/2	4,434.71	1/2	4,092.24	1/2	3,748.96	1/2	3,405.74	1/2	3,062.55	1/2	2,719.29	1/2	2,376.00
3/4		3/4		3/4	4,769.30	3/4	4,427.59	3/4	4,085.09	3/4	3,741.81	3/4	3,398.59	3/4	3,055.40	3/4	2,712.14	3/4	2,368.85
4		4		4	4,762.18	4	4,420.47	4	4,077.94	4	3,734.66	4	3,391.44	4	3,048.25	4	2,704.99	4	2,361.70
1/4		1/4		1/4	4,755.06	1/4	4,413.35	1/4	4,070.79	1/4	3,727.50	1/4	3,384.29	1/4	3,041.11	1/4	2,697.84	1/4	2,354.54
1/2		1/2		1/2	4,747.94	1/2	4,406.23	1/2	4,063.63	1/2	3,720.35	1/2	3,377.14	1/2	3,033.96	1/2	2,690.69	1/2	2,347.39
3/4		3/4		3/4	4,740.82	3/4	4,399.11	3/4	4,056.48	3/4	3,713.20	3/4	3,369.99	3/4	3,026.81	3/4	2,683.54	3/4	2,340.24
5		5		5	4,733.70	5	4,391.99	5	4,049.33	5	3,706.05	5	3,362.84	5	3,019.66	5	2,676.38	5	2,333.09
1/4		1/4		1/4	4,726.58	1/4	4,384.87	1/4	4,042.18	1/4	3,698.90	1/4	3,355.69	1/4	3,012.51	1/4	2,669.23	1/4	2,325.94
1/2		1/2		1/2	4,719.47	1/2	4,377.75	1/2	4,035.03	1/2	3,691.75	1/2	3,348.54	1/2	3,005.36	1/2	2,662.08	1/2	2,318.78
3/4		3/4		3/4	5,027.25	3/4	4,712.35	3/4	4,370.63	3/4	4,027.88	3/4	3,684.59	3/4	3,341.39	3/4	2,998.21	3/4	2,654.93
6		6		6	5,023.45	6	4,705.23	6	4,363.52	6	4,020.72	6	3,677.44	6	3,334.24	6	2,991.06	6	2,647.78
1/4		1/4		1/4	5,019.66	1/4	4,698.11	1/4	4,356.40	1/4	4,013.57	1/4	3,670.29	1/4	3,327.09	1/4	2,983.90	1/4	2,640.63
1/2		1/2		1/2	5,015.86	1/2	4,690.99	1/2	4,349.28	1/2	4,006.42	1/2	3,663.14	1/2	3,319.94	1/2	2,976.75	1/2	2,633.48
3/4		3/4		3/4	5,012.07	3/4	4,683.87	3/4	4,342.16	3/4	3,999.27	3/4	3,655.99	3/4	3,312.79	3/4	2,969.60	3/4	2,626.32
7		7		7	5,007.08	7	4,676.75	7	4,335.04	7	3,992.12	7	3,648.84	7	3,305.64	7	2,962.45	7	2,619.17
1/4		1/4		1/4	5,002.09	1/4	4,669.63	1/4	4,327.92	1/4	3,984.97	1/4	3,641.68	1/4	3,298.49	1/4	2,955.30	1/4	2,612.02
1/2		1/2		1/2	4,997.10	1/2	4,662.51	1/2	4,320.80	1/2	3,977.81	1/2	3,634.53	1/2	3,291.34	1/2	2,948.15	1/2	2,604.87
3/4		3/4		3/4	4,992.11	3/4	4,655.39	3/4	4,313.68	3/4	3,970.66	3/4	3,627.38	3/4	3,284.19	3/4	2,940.99	3/4	2,597.72
8		8		8	4,985.93	8	4,648.28	8	4,306.56	8	3,963.51	8	3,620.23	8	3,277.05	8	2,933.84	8	2,590.56
1/4		1/4		1/4	4,979.75	1/4	4,641.16	1/4	4,299.44	1/4	3,956.36	1/4	3,613.08	1/4	3,269.90	1/4	2,926.69	1/4	2,583.41
1/2		1/2		1/2	4,973.57	1/2	4,634.04	1/2	4,292.33	1/2	3,949.21	1/2	3,605.93	1/2	3,262.75	1/2	2,919.54	1/2	2,576.26
3/4		3/4		3/4	4,967.39	3/4	4,626.92	3/4	4,285.21	3/4	3,942.06	3/4	3,598.78	3/4	3,255.60	3/4	2,912.39	3/4	2,569.11
9		9		9	4,960.39	9	4,619.80	9	4,278.09	9	3,934.90	9	3,591.63	9	3,248.45	9	2,905.24	9	2,561.95
1/4		1/4		1/4	4,953.38	1/4	4,612.68	1/4	4,270.97	1/4	3,927.75	1/4	3,584.48	1/4	3,241.30	1/4	2,898.08	1/4	2,554.80
1/2		1/2		1/2	4,946.38	1/2	4,605.56	1/2	4,263.85	1/2	3,920.60	1/2	3,577.33	1/2	3,234.15	1/2	2,890.93	1/2	2,547.65
3/4		3/4		3/4	4,939.37	3/4	4,598.44	3/4	4,256.73	3/4	3,913.45	3/4	3,570.18	3/4	3,227.00	3/4	2,883.78	3/4	2,540.50
10		10		10	4,932.31	10	4,591.32	10	4,249.58	10	3,906.30	10	3,563.03	10	3,219.85	10	2,876.63	10	2,533.35
1/4		1/4		1/4	4,925.25	1/4	4,584.20	1/4	4,242.43	1/4	3,899.15	1/4	3,555.88	1/4	3,212.70	1/4	2,869.48	1/4	2,526.19
1/2		1/2		1/2	4,918.19	1/2	4,577.09	1/2	4,235.27	1/2	3,891.99	1/2	3,548.73	1/2	3,205.55	1/2	2,862.33	1/2	2,519.04
3/4		3/4		3/4	4,911.13	3/4	4,569.97	3/4	4,228.12	3/4	3,884.84	3/4	3,541.58	3/4	3,198.40	3/4	2,855.17	3/4	2,511.89
11		11		11	4,904.06	11	4,562.85	11	4,220.97	11	3,877.69	11	3,534.43	11	3,191.25	11	2,848.02	11	2,504.74
1/4		1/4		1/4	4,896.99	1/4	4,555.73	1/4	4,213.82	1/4	3,870.54	1/4	3,527.28	1/4	3,184.10	1/4	2,840.87	1/4	2,497.59
1/2		1/2		1/2	4,889.91	1/2	4,548.61	1/2	4,206.67	1/2	3,863.39	1/2	3,520.13	1/2	3,176.95	1/2	2,833.72	1/2	2,490.43
3/4		3/4		3/4	4,882.84	3/4	4,541.49	3/4	4,199.52	3/4	3,856.23	3/4	3,512.99	3/4	3,169.80	3/4	2,826.57	3/4	2,483.28

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**1 PORT**  
**ULLAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,132.83	0	1,789.53	0	1,446.23	0	1,102.93	0	762.15	0	419.89	0	109.69	0		0		0	
1/4	2,125.68	1/4	1,782.38	1/4	1,439.08	1/4	1,095.77	1/4	755.04	1/4	412.94	1/4	103.75	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,118.52	1/2	1,775.22	1/2	1,431.92	1/2	1,088.62	1/2	747.92	1/2	406.00	1/2	97.81	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,111.37	3/4	1,768.07	3/4	1,424.77	3/4	1,081.47	3/4	740.80	3/4	399.06	3/4	91.87	3/4	3/4	3/4	3/4	3/4	3/4
1	2,104.22	1	1,760.92	1	1,417.62	1	1,074.35	1	733.65	1	392.20	1	86.02	1	1	1	1	1	1
1/4	2,097.07	1/4	1,753.77	1/4	1,410.47	1/4	1,067.23	1/4	726.50	1/4	385.34	1/4	80.18	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,089.92	1/2	1,746.62	1/2	1,403.31	1/2	1,060.12	1/2	719.34	1/2	378.48	1/2	74.33	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,082.76	3/4	1,739.46	3/4	1,396.16	3/4	1,053.00	3/4	712.19	3/4	371.62	3/4	68.49	3/4	3/4	3/4	3/4	3/4	3/4
2	2,075.61	2	1,732.31	2	1,389.01	2	1,045.90	2	705.04	2	364.84	2	62.75	2	2	2	2	2	2
1/4	2,068.46	1/4	1,725.16	1/4	1,381.86	1/4	1,038.80	1/4	697.89	1/4	358.07	1/4	57.01	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,061.31	1/2	1,718.01	1/2	1,374.71	1/2	1,031.70	1/2	690.74	1/2	351.29	1/2	51.28	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,054.16	3/4	1,710.85	3/4	1,367.55	3/4	1,024.60	3/4	683.58	3/4	344.52	3/4	45.54	3/4	3/4	3/4	3/4	3/4	3/4
3	2,047.00	3	1,703.70	3	1,360.40	3	1,017.51	3	676.43	3	337.82	3	40.74	3	3	3	3	3	3
1/4	2,039.85	1/4	1,696.55	1/4	1,353.25	1/4	1,010.42	1/4	669.28	1/4	331.13	1/4	35.95	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,032.70	1/2	1,689.40	1/2	1,346.10	1/2	1,003.32	1/2	662.13	1/2	324.44	1/2	31.16	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,025.55	3/4	1,682.25	3/4	1,338.95	3/4	996.23	3/4	654.98	3/4	317.75	3/4	26.36	3/4	3/4	3/4	3/4	3/4	3/4
4	2,018.40	4	1,675.09	4	1,331.79	4	989.14	4	647.83	4	311.14	4	23.44	4	4	4	4	4	4
1/4	2,011.24	1/4	1,667.94	1/4	1,324.64	1/4	982.05	1/4	640.67	1/4	304.53	1/4	20.51	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,004.09	1/2	1,660.79	1/2	1,317.49	1/2	974.96	1/2	633.52	1/2	297.92	1/2	17.59	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,996.94	3/4	1,653.64	3/4	1,310.34	3/4	967.87	3/4	626.37	3/4	291.31	3/4	14.67	3/4	3/4	3/4	3/4	3/4	3/4
5	1,989.79	5	1,646.49	5	1,303.19	5	960.77	5	619.22	5	284.79	5		5	5	5	5	5	5
1/4	1,982.63	1/4	1,639.33	1/4	1,296.03	1/4	953.68	1/4	612.07	1/4	278.26	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,975.48	1/2	1,632.18	1/2	1,288.88	1/2	946.59	1/2	604.92	1/2	271.73	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,968.33	3/4	1,625.03	3/4	1,281.73	3/4	939.50	3/4	597.76	3/4	265.21	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	1,961.18	6	1,617.88	6	1,274.58	6	932.41	6	590.61	6	258.77	6		6	6	6	6	6	6
1/4	1,954.03	1/4	1,610.73	1/4	1,267.42	1/4	925.32	1/4	583.46	1/4	252.33	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,946.87	1/2	1,603.57	1/2	1,260.27	1/2	918.23	1/2	576.31	1/2	245.88	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,939.72	3/4	1,596.42	3/4	1,253.12	3/4	911.13	3/4	569.16	3/4	239.44	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,932.57	7	1,589.27	7	1,245.97	7	904.04	7	562.00	7	233.09	7		7	7	7	7	7	7
1/4	1,925.42	1/4	1,582.12	1/4	1,238.82	1/4	896.95	1/4	554.85	1/4	226.73	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,918.27	1/2	1,574.96	1/2	1,231.66	1/2	889.86	1/2	547.70	1/2	220.37	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,911.11	3/4	1,567.81	3/4	1,224.51	3/4	882.77	3/4	540.55	3/4	214.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,903.96	8	1,560.66	8	1,217.36	8	875.68	8	533.40	8	207.74	8		8	8	8	8	8	8
1/4	1,896.81	1/4	1,553.51	1/4	1,210.21	1/4	868.58	1/4	526.25	1/4	201.46	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,889.66	1/2	1,546.36	1/2	1,203.06	1/2	861.49	1/2	519.09	1/2	195.19	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,882.51	3/4	1,539.20	3/4	1,195.90	3/4	854.40	3/4	511.94	3/4	188.91	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,875.35	9	1,532.05	9	1,188.75	9	847.31	9	504.79	9	182.72	9		9	9	9	9	9	9
1/4	1,868.20	1/4	1,524.90	1/4	1,181.60	1/4	840.22	1/4	497.64	1/4	176.53	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,861.05	1/2	1,517.75	1/2	1,174.45	1/2	833.13	1/2	490.49	1/2	170.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,853.90	3/4	1,510.60	3/4	1,167.30	3/4	826.04	3/4	483.33	3/4	164.15	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,846.74	10	1,503.44	10	1,160.14	10	818.94	10	476.23	10	158.04	10		10	10	10	10	10	10
1/4	1,839.59	1/4	1,496.29	1/4	1,152.99	1/4	811.85	1/4	469.12	1/4	151.94	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,832.44	1/2	1,489.14	1/2	1,145.84	1/2	804.76	1/2	462.02	1/2	145.83	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,825.29	3/4	1,481.99	3/4	1,138.69	3/4	797.67	3/4	454.91	3/4	139.72	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,818.14	11	1,474.84	11	1,131.53	11	790.57	11	447.89	11	133.70	11		11	11	11	11	11	11
1/4	1,810.98	1/4	1,467.68	1/4	1,124.38	1/4	783.47	1/4	440.87	1/4	127.67	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,803.83	1/2	1,460.53	1/2	1,117.23	1/2	776.37	1/2	433.85	1/2	121.65	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,796.68	3/4	1,453.38	3/4	1,110.08	3/4	769.27	3/4	426.83	3/4	115.63	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS  
  
CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>





# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

## 1 STBD

## ULLAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,866.47	0	4,525.35	0	4,183.63	0	3,840.67	0	3,497.74	0	3,154.88	0	2,811.97	0	2,469.00
1/4		1/4		1/4	4,859.40	1/4	4,518.23	1/4	4,176.48	1/4	3,833.52	1/4	3,490.60	1/4	3,147.74	1/4	2,804.82	1/4	2,461.86
1/2		1/2		1/2	4,852.33	1/2	4,511.12	1/2	4,169.34	1/2	3,826.38	1/2	3,483.46	1/2	3,140.59	1/2	2,797.68	1/2	2,454.71
3/4		3/4		3/4	4,845.26	3/4	4,504.01	3/4	4,162.19	3/4	3,819.23	3/4	3,476.32	3/4	3,133.45	3/4	2,790.53	3/4	2,447.56
1		1		1	4,838.20	1	4,496.90	1	4,155.05	1	3,812.09	1	3,469.17	1	3,126.31	1	2,783.39	1	2,440.42
1/4		1/4		1/4	4,831.13	1/4	4,489.78	1/4	4,147.90	1/4	3,804.94	1/4	3,462.03	1/4	3,119.17	1/4	2,776.24	1/4	2,433.27
1/2		1/2		1/2	4,824.06	1/2	4,482.67	1/2	4,140.76	1/2	3,797.80	1/2	3,454.89	1/2	3,112.02	1/2	2,769.10	1/2	2,426.13
3/4		3/4		3/4	4,816.95	3/4	4,475.56	3/4	4,133.61	3/4	3,790.65	3/4	3,447.74	3/4	3,104.88	3/4	2,761.95	3/4	2,418.98
2		2		2	4,809.84	2	4,468.45	2	4,126.47	2	3,783.51	2	3,440.60	2	3,097.74	2	2,754.81	2	2,411.84
1/4		1/4		1/4	4,802.73	1/4	4,461.34	1/4	4,119.32	1/4	3,776.36	1/4	3,433.46	1/4	3,090.59	1/4	2,747.66	1/4	2,404.69
1/2		1/2		1/2	4,795.61	1/2	4,454.22	1/2	4,112.18	1/2	3,769.22	1/2	3,426.31	1/2	3,083.45	1/2	2,740.52	1/2	2,397.55
3/4		3/4		3/4	4,788.50	3/4	4,447.11	3/4	4,105.03	3/4	3,762.07	3/4	3,419.17	3/4	3,076.31	3/4	2,733.37	3/4	2,390.40
3		3		3	4,781.39	3	4,440.00	3	4,097.89	3	3,754.93	3	3,412.03	3	3,069.16	3	2,726.23	3	2,383.26
1/4		1/4		1/4	4,774.28	1/4	4,432.89	1/4	4,090.74	1/4	3,747.78	1/4	3,404.89	1/4	3,062.02	1/4	2,719.08	1/4	2,376.11
1/2		1/2		1/2	4,767.16	1/2	4,425.77	1/2	4,083.60	1/2	3,740.64	1/2	3,397.74	1/2	3,054.88	1/2	2,711.94	1/2	2,368.97
3/4		3/4		3/4	4,760.05	3/4	4,418.66	3/4	4,076.45	3/4	3,733.49	3/4	3,390.60	3/4	3,047.74	3/4	2,704.79	3/4	2,361.82
4		4		4	4,752.94	4	4,411.55	4	4,069.31	4	3,726.35	4	3,383.46	4	3,040.59	4	2,697.65	4	2,354.67
1/4		1/4		1/4	4,745.83	1/4	4,404.44	1/4	4,062.16	1/4	3,719.20	1/4	3,376.31	1/4	3,033.45	1/4	2,690.50	1/4	2,347.53
1/2		1/2		1/2	4,738.71	1/2	4,397.32	1/2	4,055.02	1/2	3,712.06	1/2	3,369.17	1/2	3,026.31	1/2	2,683.36	1/2	2,340.38
3/4		3/4		3/4	4,731.60	3/4	4,390.21	3/4	4,047.87	3/4	3,704.91	3/4	3,362.03	3/4	3,019.16	3/4	2,676.21	3/4	2,333.24
5		5		5	4,724.49	5	4,383.10	5	4,040.73	5	3,697.77	5	3,354.88	5	3,012.02	5	2,669.07	5	2,326.09
1/4		1/4		1/4	4,717.38	1/4	4,375.99	1/4	4,033.58	1/4	3,690.62	1/4	3,347.74	1/4	3,004.88	1/4	2,661.92	1/4	2,318.95
1/2		1/2		1/2	5,024.87	1/2	4,710.27	1/2	4,368.88	1/2	4,026.44	1/2	3,683.48	1/2	3,340.60	1/2	2,997.73	1/2	2,654.78
3/4		3/4		3/4	5,021.08	3/4	4,703.15	3/4	4,361.76	3/4	4,019.29	3/4	3,676.33	3/4	3,333.46	3/4	2,990.59	3/4	2,647.63
6		6		6	5,017.29	6	4,696.04	6	4,354.65	6	4,012.15	6	3,669.19	6	3,326.31	6	2,983.44	6	2,640.49
1/4		1/4		1/4	5,013.49	1/4	4,688.93	1/4	4,347.54	1/4	4,005.00	1/4	3,662.04	1/4	3,319.17	1/4	2,976.30	1/4	2,633.34
1/2		1/2		1/2	5,009.70	1/2	4,681.82	1/2	4,340.43	1/2	3,997.86	1/2	3,654.90	1/2	3,312.03	1/2	2,969.15	1/2	2,626.20
3/4		3/4		3/4	5,004.72	3/4	4,674.70	3/4	4,333.31	3/4	3,990.71	3/4	3,647.75	3/4	3,304.88	3/4	2,962.01	3/4	2,619.05
7		7		7	4,999.73	7	4,667.59	7	4,326.20	7	3,983.57	7	3,640.61	7	3,297.74	7	2,954.87	7	2,611.91
1/4		1/4		1/4	4,994.75	1/4	4,660.48	1/4	4,319.09	1/4	3,976.42	1/4	3,633.46	1/4	3,290.60	1/4	2,947.72	1/4	2,604.76
1/2		1/2		1/2	4,989.77	1/2	4,653.37	1/2	4,311.98	1/2	3,969.28	1/2	3,626.32	1/2	3,283.45	1/2	2,940.58	1/2	2,597.62
3/4		3/4		3/4	4,983.59	3/4	4,646.25	3/4	4,304.86	3/4	3,962.13	3/4	3,619.18	3/4	3,276.31	3/4	2,933.43	3/4	2,590.47
8		8		8	4,977.42	8	4,639.14	8	4,297.75	8	3,954.99	8	3,612.03	8	3,269.17	8	2,926.29	8	2,583.33
1/4		1/4		1/4	4,971.24	1/4	4,632.03	1/4	4,290.64	1/4	3,947.84	1/4	3,604.89	1/4	3,262.03	1/4	2,919.14	1/4	2,576.18
1/2		1/2		1/2	4,965.07	1/2	4,624.92	1/2	4,283.53	1/2	3,940.70	1/2	3,597.75	1/2	3,254.88	1/2	2,912.00	1/2	2,569.04
3/4		3/4		3/4	4,958.07	3/4	4,617.81	3/4	4,276.42	3/4	3,933.55	3/4	3,590.60	3/4	3,247.74	3/4	2,904.85	3/4	2,561.89
9		9		9	4,951.07	9	4,610.69	9	4,269.30	9	3,926.41	9	3,583.46	9	3,240.60	9	2,897.71	9	2,554.75
1/4		1/4		1/4	4,944.07	1/4	4,603.58	1/4	4,262.19	1/4	3,919.26	1/4	3,576.32	1/4	3,233.45	1/4	2,890.56	1/4	2,547.60
1/2		1/2		1/2	4,937.08	1/2	4,596.47	1/2	4,255.08	1/2	3,912.12	1/2	3,569.17	1/2	3,226.31	1/2	2,883.42	1/2	2,540.45
3/4		3/4		3/4	4,930.02	3/4	4,589.36	3/4	4,247.93	3/4	3,904.97	3/4	3,562.03	3/4	3,219.17	3/4	2,876.27	3/4	2,533.31
10		10		10	4,922.97	10	4,582.24	10	4,240.79	10	3,897.83	10	3,554.89	10	3,212.02	10	2,869.13	10	2,526.16
1/4		1/4		1/4	4,915.92	1/4	4,575.13	1/4	4,233.64	1/4	3,890.68	1/4	3,547.75	1/4	3,204.88	1/4	2,861.98	1/4	2,519.02
1/2		1/2		1/2	4,908.86	1/2	4,568.02	1/2	4,226.50	1/2	3,883.54	1/2	3,540.60	1/2	3,197.74	1/2	2,854.84	1/2	2,511.87
3/4		3/4		3/4	4,901.80	3/4	4,560.91	3/4	4,219.35	3/4	3,876.39	3/4	3,533.46	3/4	3,190.60	3/4	2,847.69	3/4	2,504.73
11		11		11	4,894.73	11	4,553.80	11	4,212.21	11	3,869.25	11	3,526.32	11	3,183.45	11	2,840.55	11	2,497.58
1/4		1/4		1/4	4,887.67	1/4	4,546.68	1/4	4,205.06	1/4	3,862.10	1/4	3,519.17	1/4	3,176.31	1/4	2,833.40	1/4	2,490.44
1/2		1/2		1/2	4,880.60	1/2	4,539.57	1/2	4,197.92	1/2	3,854.96	1/2	3,512.03	1/2	3,169.17	1/2	2,826.26	1/2	2,483.29
3/4		3/4		3/4	4,873.53	3/4	4,532.46	3/4	4,190.77	3/4	3,847.81	3/4	3,504.89	3/4	3,162.02	3/4	2,819.11	3/4	2,476.15

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.

GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092

Pearland, Texas 77588  
<http://www.pmacorp.net>



**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**1 STBD**  
**ULLAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 16'-04 1/2"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,126.02	0	1,783.04	0	1,440.06	0	1,097.08	0	754.39	0	412.52	0	103.64	0		0		0	
1/4	2,118.88	1/4	1,775.90	1/4	1,432.92	1/4	1,089.94	1/4	747.25	1/4	405.58	1/4	97.71	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,111.73	1/2	1,768.75	1/2	1,425.77	1/2	1,082.79	1/2	740.10	1/2	398.64	1/2	91.77	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,104.59	3/4	1,761.61	3/4	1,418.63	3/4	1,075.65	3/4	732.96	3/4	391.79	3/4	85.93	3/4	3/4	3/4	3/4	3/4	3/4
1	2,097.44	1	1,754.46	1	1,411.48	1	1,068.50	1	725.81	1	384.94	1	80.09	1	1	1	1	1	1
1/4	2,090.29	1/4	1,747.32	1/4	1,404.34	1/4	1,061.36	1/4	718.67	1/4	378.08	1/4	74.26	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,083.15	1/2	1,740.17	1/2	1,397.19	1/2	1,054.21	1/2	711.52	1/2	371.23	1/2	68.42	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,076.00	3/4	1,733.02	3/4	1,390.05	3/4	1,047.07	3/4	704.38	3/4	364.46	3/4	62.69	3/4	3/4	3/4	3/4	3/4	3/4
2	2,068.86	2	1,725.88	2	1,382.90	2	1,039.92	2	697.23	2	357.69	2	56.96	2	2	2	2	2	2
1/4	2,061.71	1/4	1,718.73	1/4	1,375.75	1/4	1,032.78	1/4	690.09	1/4	350.92	1/4	51.22	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,054.57	1/2	1,711.59	1/2	1,368.61	1/2	1,025.63	1/2	682.94	1/2	344.15	1/2	45.49	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,047.42	3/4	1,704.44	3/4	1,361.46	3/4	1,018.49	3/4	675.80	3/4	337.47	3/4	40.71	3/4	3/4	3/4	3/4	3/4	3/4
3	2,040.28	3	1,697.30	3	1,354.32	3	1,011.36	3	668.65	3	330.78	3	35.92	3	3	3	3	3	3
1/4	2,033.13	1/4	1,690.15	1/4	1,347.17	1/4	1,004.22	1/4	661.51	1/4	324.10	1/4	31.13	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,025.99	1/2	1,683.01	1/2	1,340.03	1/2	997.09	1/2	654.36	1/2	317.41	1/2	26.34	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,018.84	3/4	1,675.86	3/4	1,332.88	3/4	989.95	3/4	647.22	3/4	310.81	3/4	23.42	3/4	3/4	3/4	3/4	3/4	3/4
4	2,011.70	4	1,668.72	4	1,325.74	4	982.81	4	640.07	4	304.21	4	20.50	4	4	4	4	4	4
1/4	2,004.55	1/4	1,661.57	1/4	1,318.59	1/4	975.68	1/4	632.93	1/4	297.61	1/4	17.58	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,997.40	1/2	1,654.43	1/2	1,311.45	1/2	968.54	1/2	625.78	1/2	291.00	1/2	14.66	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,990.26	3/4	1,647.28	3/4	1,304.30	3/4	961.40	3/4	618.64	3/4	284.49	3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	1,983.11	5	1,640.13	5	1,297.16	5	954.27	5	611.49	5	277.97	5		5	5	5	5	5	5
1/4	1,975.97	1/4	1,632.99	1/4	1,290.01	1/4	947.13	1/4	604.35	1/4	271.45	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,968.82	1/2	1,625.84	1/2	1,282.86	1/2	939.99	1/2	597.20	1/2	264.93	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,961.68	3/4	1,618.70	3/4	1,275.72	3/4	932.86	3/4	590.06	3/4	258.49	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	1,954.53	6	1,611.55	6	1,268.57	6	925.72	6	582.91	6	252.06	6		6	6	6	6	6	6
1/4	1,947.39	1/4	1,604.41	1/4	1,261.43	1/4	918.58	1/4	575.77	1/4	245.62	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,940.24	1/2	1,597.26	1/2	1,254.28	1/2	911.45	1/2	568.62	1/2	239.19	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,933.10	3/4	1,590.12	3/4	1,247.14	3/4	904.31	3/4	561.48	3/4	232.84	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,925.95	7	1,582.97	7	1,239.99	7	897.17	7	554.33	7	226.49	7		7	7	7	7	7	7
1/4	1,918.81	1/4	1,575.83	1/4	1,232.85	1/4	890.04	1/4	547.19	1/4	220.14	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,911.66	1/2	1,568.68	1/2	1,225.70	1/2	882.90	1/2	540.04	1/2	213.78	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,904.51	3/4	1,561.54	3/4	1,218.56	3/4	875.76	3/4	532.90	3/4	207.52	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,897.37	8	1,554.39	8	1,211.41	8	868.63	8	525.75	8	201.25	8		8	8	8	8	8	8
1/4	1,890.22	1/4	1,547.24	1/4	1,204.27	1/4	861.49	1/4	518.61	1/4	194.98	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,883.08	1/2	1,540.10	1/2	1,197.12	1/2	854.36	1/2	511.46	1/2	188.71	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,875.93	3/4	1,532.95	3/4	1,189.97	3/4	847.22	3/4	504.32	3/4	182.53	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,868.79	9	1,525.81	9	1,182.83	9	840.08	9	497.17	9	176.34	9		9	9	9	9	9	9
1/4	1,861.64	1/4	1,518.66	1/4	1,175.68	1/4	832.95	1/4	490.03	1/4	170.16	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,854.50	1/2	1,511.52	1/2	1,168.54	1/2	825.81	1/2	482.88	1/2	163.98	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,847.35	3/4	1,504.37	3/4	1,161.39	3/4	818.67	3/4	475.78	3/4	157.87	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,840.21	10	1,497.23	10	1,154.25	10	811.54	10	468.67	10	151.77	10		10	10	10	10	10	10
1/4	1,833.06	1/4	1,490.08	1/4	1,147.10	1/4	804.40	1/4	461.57	1/4	145.67	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,825.91	1/2	1,482.94	1/2	1,139.96	1/2	797.27	1/2	454.47	1/2	139.57	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,818.77	3/4	1,475.79	3/4	1,132.81	3/4	790.12	3/4	447.45	3/4	133.56	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,811.62	11	1,468.64	11	1,125.67	11	782.98	11	440.43	11	127.54	11		11	11	11	11	11	11
1/4	1,804.48	1/4	1,461.50	1/4	1,118.52	1/4	775.83	1/4	433.41	1/4	121.52	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,797.33	1/2	1,454.35	1/2	1,111.37	1/2	768.68	1/2	426.39	1/2	115.50	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,790.19	3/4	1,447.21	3/4	1,104.23	3/4	761.54	3/4	419.45	3/4	109.57	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020



**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**2 PORT**  
**ULLAGE TABLE**

**HERMETIC**  
**GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,912.37	0	4,571.86	0	4,230.74	0	3,888.35	0	3,545.97	0	3,203.58	0	2,861.15	0	2,518.66
1/4		1/4		1/4	4,905.32	1/4	4,564.76	1/4	4,223.60	1/4	3,881.22	1/4	3,538.84	1/4	3,196.45	1/4	2,854.01	1/4	2,511.52
1/2		1/2		1/2	4,898.26	1/2	4,557.66	1/2	4,216.47	1/2	3,874.09	1/2	3,531.70	1/2	3,189.32	1/2	2,846.87	1/2	2,504.39
3/4		3/4		3/4	4,891.20	3/4	4,550.55	3/4	4,209.34	3/4	3,866.95	3/4	3,524.57	3/4	3,182.19	3/4	2,839.74	3/4	2,497.25
1		1		1	4,884.15	1	4,543.45	1	4,202.20	1	3,859.82	1	3,517.44	1	3,175.05	1	2,832.60	1	2,490.11
1/4		1/4		1/4	4,877.09	1/4	4,536.35	1/4	4,195.07	1/4	3,852.69	1/4	3,510.30	1/4	3,167.92	1/4	2,825.47	1/4	2,482.98
1/2		1/2		1/2	4,870.04	1/2	4,529.25	1/2	4,187.94	1/2	3,845.55	1/2	3,503.17	1/2	3,160.79	1/2	2,818.33	1/2	2,475.84
3/4		3/4		3/4	4,862.98	3/4	4,522.15	3/4	4,180.81	3/4	3,838.42	3/4	3,496.04	3/4	3,153.65	3/4	2,811.20	3/4	2,468.71
2		2		2	4,855.88	2	4,515.05	2	4,173.67	2	3,831.29	2	3,488.90	2	3,146.52	2	2,804.06	2	2,461.57
1/4		1/4		1/4	4,848.78	1/4	4,507.95	1/4	4,166.54	1/4	3,824.16	1/4	3,481.77	1/4	3,139.39	1/4	2,796.93	1/4	2,454.44
1/2		1/2		1/2	4,841.68	1/2	4,500.85	1/2	4,159.41	1/2	3,817.02	1/2	3,474.64	1/2	3,132.25	1/2	2,789.79	1/2	2,447.30
3/4		3/4		3/4	4,834.58	3/4	4,493.75	3/4	4,152.27	3/4	3,809.89	3/4	3,467.51	3/4	3,125.12	3/4	2,782.66	3/4	2,440.17
3		3		3	4,827.48	3	4,486.65	3	4,145.14	3	3,802.76	3	3,460.37	3	3,117.99	3	2,775.52	3	2,433.03
1/4		1/4		1/4	4,820.38	1/4	4,479.55	1/4	4,138.01	1/4	3,795.62	1/4	3,453.24	1/4	3,110.86	1/4	2,768.39	1/4	2,425.90
1/2		1/2		1/2	4,813.28	1/2	4,472.45	1/2	4,130.87	1/2	3,788.49	1/2	3,446.11	1/2	3,103.72	1/2	2,761.25	1/2	2,418.76
3/4		3/4		3/4	4,806.18	3/4	4,465.35	3/4	4,123.74	3/4	3,781.36	3/4	3,438.97	3/4	3,096.59	3/4	2,754.12	3/4	2,411.63
4		4		4	4,799.08	4	4,458.25	4	4,116.61	4	3,774.22	4	3,431.84	4	3,089.46	4	2,746.98	4	2,404.49
1/4		1/4		1/4	4,791.98	1/4	4,451.15	1/4	4,109.48	1/4	3,767.09	1/4	3,424.71	1/4	3,082.32	1/4	2,739.85	1/4	2,397.36
1/2		1/2		1/2	4,784.87	1/2	4,444.05	1/2	4,102.34	1/2	3,759.96	1/2	3,417.57	1/2	3,075.19	1/2	2,732.71	1/2	2,390.22
3/4		3/4		3/4	4,777.77	3/4	4,436.95	3/4	4,095.21	3/4	3,752.83	3/4	3,410.44	3/4	3,068.06	3/4	2,725.58	3/4	2,383.09
5		5		5	4,770.67	5	4,429.84	5	4,088.08	5	3,745.69	5	3,403.31	5	3,060.92	5	2,718.44	5	2,375.95
1/4		1/4		1/4	4,763.57	1/4	4,422.74	1/4	4,080.94	1/4	3,738.56	1/4	3,396.18	1/4	3,053.79	1/4	2,711.31	1/4	2,368.82
1/2		1/2		1/2	4,756.47	1/2	4,415.64	1/2	4,073.81	1/2	3,731.43	1/2	3,389.04	1/2	3,046.66	1/2	2,704.17	1/2	2,361.68
3/4		3/4		3/4	5,063.45	3/4	4,749.37	3/4	4,408.54	3/4	4,066.68	3/4	3,724.29	3/4	3,381.91	3/4	3,039.53	3/4	2,697.04
6		6		6	4,742.27	6	4,401.44	6	4,059.54	6	3,717.16	6	3,374.78	6	3,032.39	6	2,689.90	6	2,347.41
1/4		1/4		1/4	5,055.88	1/4	4,735.17	1/4	4,394.34	1/4	4,052.41	1/4	3,710.03	1/4	3,367.64	1/4	3,025.25	1/4	2,682.77
1/2		1/2		1/2	5,052.09	1/2	4,728.07	1/2	4,387.24	1/2	4,045.28	1/2	3,702.89	1/2	3,360.51	1/2	3,018.12	1/2	2,675.63
3/4		3/4		3/4	5,048.31	3/4	4,720.97	3/4	4,380.14	3/4	4,038.15	3/4	3,695.76	3/4	3,353.38	3/4	3,010.98	3/4	2,668.49
7		7		7	5,043.33	7	4,713.87	7	4,373.04	7	4,031.01	7	3,688.63	7	3,346.24	7	3,003.85	7	2,661.36
1/4		1/4		1/4	5,038.36	1/4	4,706.77	1/4	4,365.94	1/4	4,023.88	1/4	3,681.50	1/4	3,339.11	1/4	2,996.71	1/4	2,654.22
1/2		1/2		1/2	5,033.38	1/2	4,699.67	1/2	4,358.84	1/2	4,016.75	1/2	3,674.36	1/2	3,331.98	1/2	2,989.58	1/2	2,647.09
3/4		3/4		3/4	5,028.41	3/4	4,692.57	3/4	4,351.74	3/4	4,009.61	3/4	3,667.23	3/4	3,324.85	3/4	2,982.44	3/4	2,639.95
8		8		8	5,022.24	8	4,685.47	8	4,344.64	8	4,002.48	8	3,660.10	8	3,317.71	8	2,975.31	8	2,632.82
1/4		1/4		1/4	5,016.08	1/4	4,678.37	1/4	4,337.54	1/4	3,995.35	1/4	3,652.96	1/4	3,310.58	1/4	2,968.17	1/4	2,625.68
1/2		1/2		1/2	5,009.92	1/2	4,671.27	1/2	4,330.44	1/2	3,988.21	1/2	3,645.83	1/2	3,303.45	1/2	2,961.04	1/2	2,618.55
3/4		3/4		3/4	5,003.75	3/4	4,664.16	3/4	4,323.34	3/4	3,981.08	3/4	3,638.70	3/4	3,296.31	3/4	2,953.90	3/4	2,611.41
9		9		9	4,996.77	9	4,657.06	9	4,316.24	9	3,973.95	9	3,631.56	9	3,289.18	9	2,946.77	9	2,604.28
1/4		1/4		1/4	4,989.78	1/4	4,649.96	1/4	4,309.13	1/4	3,966.82	1/4	3,624.43	1/4	3,282.05	1/4	2,939.63	1/4	2,597.14
1/2		1/2		1/2	4,982.79	1/2	4,642.86	1/2	4,302.03	1/2	3,959.68	1/2	3,617.30	1/2	3,274.91	1/2	2,932.50	1/2	2,590.01
3/4		3/4		3/4	4,975.80	3/4	4,635.76	3/4	4,294.93	3/4	3,952.55	3/4	3,610.17	3/4	3,267.78	3/4	2,925.36	3/4	2,582.87
10		10		10	4,968.76	10	4,628.66	10	4,287.80	10	3,945.42	10	3,603.03	10	3,260.65	10	2,918.23	10	2,575.74
1/4		1/4		1/4	4,961.72	1/4	4,621.56	1/4	4,280.67	1/4	3,938.28	1/4	3,595.90	1/4	3,253.52	1/4	2,911.09	1/4	2,568.60
1/2		1/2		1/2	4,954.68	1/2	4,614.46	1/2	4,273.53	1/2	3,931.15	1/2	3,588.77	1/2	3,246.38	1/2	2,903.96	1/2	2,561.47
3/4		3/4		3/4	4,947.64	3/4	4,607.36	3/4	4,266.40	3/4	3,924.02	3/4	3,581.63	3/4	3,239.25	3/4	2,896.82	3/4	2,554.33
11		11		11	4,940.59	11	4,600.26	11	4,259.27	11	3,916.88	11	3,574.50	11	3,232.12	11	2,889.69	11	2,547.20
1/4		1/4		1/4	4,933.53	1/4	4,593.16	1/4	4,252.14	1/4	3,909.75	1/4	3,567.37	1/4	3,224.98	1/4	2,882.55	1/4	2,540.06
1/2		1/2		1/2	4,926.48	1/2	4,586.06	1/2	4,245.00	1/2	3,902.62	1/2	3,560.23	1/2	3,217.85	1/2	2,875.42	1/2	2,532.93
3/4		3/4		3/4	4,919.43	3/4	4,578.96	3/4	4,237.87	3/4	3,895.49	3/4	3,553.10	3/4	3,210.72	3/4	2,868.28	3/4	2,525.79

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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& ANALYSIS, INC.  
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# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

**2 PORT**  
**ULLAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,176.17	0	1,833.68	0	1,491.19	0	1,148.70	0	819.83	0	478.20	0	135.73	0		0		0	
1/4	2,169.03	1/4	1,826.54	1/4	1,484.05	1/4	1,141.56	1/4	812.98	1/4	471.07	1/4	128.59	1/4	1/4	1/4		1/4	
1/2	2,161.90	1/2	1,819.41	1/2	1,476.92	1/2	1,134.43	1/2	806.13	1/2	463.93	1/2	121.46	1/2	1/2	1/2		1/2	
3/4	2,154.76	3/4	1,812.27	3/4	1,469.78	3/4	1,127.29	3/4	799.27	3/4	456.80	3/4	114.33	3/4	3/4	3/4		3/4	
1	2,147.63	1	1,805.14	1	1,462.65	1	1,120.44	1	792.14	1	449.66	1	107.20	1	1	1		1	
1/4	2,140.49	1/4	1,798.00	1/4	1,455.51	1/4	1,113.58	1/4	785.00	1/4	442.53	1/4	100.08	1/4	1/4	1/4		1/4	
1/2	2,133.35	1/2	1,790.87	1/2	1,448.38	1/2	1,106.73	1/2	777.87	1/2	435.39	1/2	92.95	1/2	1/2	1/2		1/2	
3/4	2,126.22	3/4	1,783.73	3/4	1,441.24	3/4	1,099.88	3/4	770.73	3/4	428.26	3/4	85.83	3/4	3/4	3/4		3/4	
2	2,119.08	2	1,776.59	2	1,434.11	2	1,093.04	2	763.60	2	421.12	2	78.73	2	2	2		2	
1/4	2,111.95	1/4	1,769.46	1/4	1,426.97	1/4	1,086.21	1/4	756.46	1/4	413.99	1/4	71.63	1/4	1/4	1/4		1/4	
1/2	2,104.81	1/2	1,762.32	1/2	1,419.83	1/2	1,079.37	1/2	749.33	1/2	406.85	1/2	64.53	1/2	1/2	1/2		1/2	
3/4	2,097.68	3/4	1,755.19	3/4	1,412.70	3/4	1,072.53	3/4	742.19	3/4	399.72	3/4	57.44	3/4	3/4	3/4		3/4	
3	2,090.54	3	1,748.05	3	1,405.56	3	1,065.70	3	735.06	3	392.58	3	51.19	3	3	3		3	
1/4	2,083.41	1/4	1,740.92	1/4	1,398.43	1/4	1,058.88	1/4	727.92	1/4	385.45	1/4	44.95	1/4	1/4	1/4		1/4	
1/2	2,076.27	1/2	1,733.78	1/2	1,391.29	1/2	1,052.05	1/2	720.79	1/2	378.31	1/2	38.71	1/2	1/2	1/2		1/2	
3/4	2,069.14	3/4	1,726.65	3/4	1,384.16	3/4	1,045.22	3/4	713.65	3/4	371.18	3/4	32.47	3/4	3/4	3/4		3/4	
4	2,062.00	4	1,719.51	4	1,377.02	4	1,038.39	4	706.52	4	364.04	4	28.01	4	4	4		4	
1/4	2,054.87	1/4	1,712.38	1/4	1,369.89	1/4	1,031.56	1/4	699.38	1/4	356.91	1/4	23.55	1/4	1/4	1/4		1/4	
1/2	2,047.73	1/2	1,705.24	1/2	1,362.75	1/2	1,024.73	1/2	692.25	1/2	349.77	1/2	19.09	1/2	1/2	1/2		1/2	
3/4	2,040.60	3/4	1,698.11	3/4	1,355.62	3/4	1,017.91	3/4	685.11	3/4	342.64	3/4	14.63	3/4	3/4	3/4		3/4	
5	2,033.46	5	1,690.97	5	1,348.48	5	1,011.08	5	677.98	5	335.50	5		5	5	5		5	
1/4	2,026.33	1/4	1,683.84	1/4	1,341.35	1/4	1,004.25	1/4	670.84	1/4	328.37	1/4		1/4	1/4	1/4		1/4	
1/2	2,019.19	1/2	1,676.70	1/2	1,334.21	1/2	997.42	1/2	663.71	1/2	321.23	1/2		1/2	1/2	1/2		1/2	
3/4	2,012.06	3/4	1,669.57	3/4	1,327.08	3/4	990.59	3/4	656.57	3/4	314.10	3/4		3/4	3/4	3/4		3/4	
6	2,004.92	6	1,662.43	6	1,319.94	6	983.76	6	649.44	6	306.96	6		6	6	6		6	
1/4	1,997.79	1/4	1,655.30	1/4	1,312.81	1/4	976.94	1/4	642.31	1/4	299.83	1/4		1/4	1/4	1/4		1/4	
1/2	1,990.65	1/2	1,648.16	1/2	1,305.67	1/2	970.11	1/2	635.17	1/2	292.69	1/2		1/2	1/2	1/2		1/2	
3/4	1,983.52	3/4	1,641.03	3/4	1,298.54	3/4	963.28	3/4	628.04	3/4	285.56	3/4		3/4	3/4	3/4		3/4	
7	1,976.38	7	1,633.89	7	1,291.40	7	956.45	7	620.90	7	278.43	7		7	7	7		7	
1/4	1,969.25	1/4	1,626.76	1/4	1,284.27	1/4	949.62	1/4	613.77	1/4	271.29	1/4		1/4	1/4	1/4		1/4	
1/2	1,962.11	1/2	1,619.62	1/2	1,277.13	1/2	942.79	1/2	606.63	1/2	264.16	1/2		1/2	1/2	1/2		1/2	
3/4	1,954.97	3/4	1,612.49	3/4	1,270.00	3/4	935.97	3/4	599.50	3/4	257.02	3/4		3/4	3/4	3/4		3/4	
8	1,947.84	8	1,605.35	8	1,262.86	8	929.14	8	592.36	8	249.89	8		8	8	8		8	
1/4	1,940.70	1/4	1,598.21	1/4	1,255.73	1/4	922.31	1/4	585.23	1/4	242.75	1/4		1/4	1/4	1/4		1/4	
1/2	1,933.57	1/2	1,591.08	1/2	1,248.59	1/2	915.48	1/2	578.09	1/2	235.62	1/2		1/2	1/2	1/2		1/2	
3/4	1,926.43	3/4	1,583.94	3/4	1,241.45	3/4	908.65	3/4	570.96	3/4	228.48	3/4		3/4	3/4	3/4		3/4	
9	1,919.30	9	1,576.81	9	1,234.32	9	901.83	9	563.82	9	221.35	9		9	9	9		9	
1/4	1,912.16	1/4	1,569.67	1/4	1,227.18	1/4	895.00	1/4	556.69	1/4	214.21	1/4		1/4	1/4	1/4		1/4	
1/2	1,905.03	1/2	1,562.54	1/2	1,220.05	1/2	888.17	1/2	549.55	1/2	207.08	1/2		1/2	1/2	1/2		1/2	
3/4	1,897.89	3/4	1,555.40	3/4	1,212.91	3/4	881.34	3/4	542.42	3/4	199.94	3/4		3/4	3/4	3/4		3/4	
10	1,890.76	10	1,548.27	10	1,205.78	10	874.51	10	535.28	10	192.81	10		10	10	10		10	
1/4	1,883.62	1/4	1,541.13	1/4	1,198.64	1/4	867.69	1/4	528.15	1/4	185.67	1/4		1/4	1/4	1/4		1/4	
1/2	1,876.49	1/2	1,534.00	1/2	1,191.51	1/2	860.86	1/2	521.01	1/2	178.54	1/2		1/2	1/2	1/2		1/2	
3/4	1,869.35	3/4	1,526.86	3/4	1,184.37	3/4	854.03	3/4	513.88	3/4	171.40	3/4		3/4	3/4	3/4		3/4	
11	1,862.22	11	1,519.73	11	1,177.24	11	847.19	11	506.74	11	164.27	11		11	11	11		11	
1/4	1,855.08	1/4	1,512.59	1/4	1,170.10	1/4	840.36	1/4	499.61	1/4	157.13	1/4		1/4	1/4	1/4		1/4	
1/2	1,847.95	1/2	1,505.46	1/2	1,162.97	1/2	833.52	1/2	492.47	1/2	150.00	1/2		1/2	1/2	1/2		1/2	
3/4	1,840.81	3/4	1,498.32	3/4	1,155.83	3/4	826.69	3/4	485.34	3/4	142.86	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020







# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

**2 STBD**  
**ULLAGE TABLE**

**HERMETIC**

**GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,954.34	0	4,611.83	0	4,268.70	0	3,924.29	0	3,579.91	0	3,235.60	0	2,891.24	0	2,546.83
1/4		1/4		1/4	4,947.25	1/4	4,604.68	1/4	4,261.52	1/4	3,917.11	1/4	3,572.74	1/4	3,228.43	1/4	2,884.07	1/4	2,539.66
1/2		1/2		1/2	4,940.15	1/2	4,597.54	1/2	4,254.35	1/2	3,909.94	1/2	3,565.57	1/2	3,221.26	1/2	2,876.89	1/2	2,532.48
3/4		3/4		3/4	4,933.05	3/4	4,590.40	3/4	4,247.17	3/4	3,902.76	3/4	3,558.39	3/4	3,214.08	3/4	2,869.72	3/4	2,525.31
1		1		1	4,925.95	1	4,583.26	1	4,239.99	1	3,895.59	1	3,551.22	1	3,206.91	1	2,862.54	1	2,518.13
1/4		1/4		1/4	4,918.86	1/4	4,576.11	1/4	4,232.82	1/4	3,888.41	1/4	3,544.05	1/4	3,199.74	1/4	2,855.37	1/4	2,510.96
1/2		1/2		1/2	4,911.76	1/2	4,568.97	1/2	4,225.64	1/2	3,881.23	1/2	3,536.87	1/2	3,192.56	1/2	2,848.19	1/2	2,503.78
3/4		3/4		3/4	4,904.66	3/4	4,561.83	3/4	4,218.47	3/4	3,874.06	3/4	3,529.70	3/4	3,185.39	3/4	2,841.02	3/4	2,496.61
2		2		2	4,897.52	2	4,554.69	2	4,211.29	2	3,866.88	2	3,522.53	2	3,178.22	2	2,833.84	2	2,489.43
1/4		1/4		1/4	4,890.38	1/4	4,547.54	1/4	4,204.12	1/4	3,859.71	1/4	3,515.35	1/4	3,171.05	1/4	2,826.67	1/4	2,482.26
1/2		1/2		1/2	4,883.24	1/2	4,540.40	1/2	4,196.94	1/2	3,852.53	1/2	3,508.18	1/2	3,163.87	1/2	2,819.49	1/2	2,475.08
3/4		3/4		3/4	4,876.09	3/4	4,533.26	3/4	4,189.77	3/4	3,845.36	3/4	3,501.01	3/4	3,156.70	3/4	2,812.31	3/4	2,467.91
3		3		3	4,868.95	3	4,526.12	3	4,182.59	3	3,838.18	3	3,493.83	3	3,149.53	3	2,805.14	3	2,460.73
1/4		1/4		1/4	4,861.81	1/4	4,518.97	1/4	4,175.42	1/4	3,831.01	1/4	3,486.66	1/4	3,142.35	1/4	2,797.96	1/4	2,453.55
1/2		1/2		1/2	4,854.67	1/2	4,511.83	1/2	4,168.24	1/2	3,823.83	1/2	3,479.49	1/2	3,135.18	1/2	2,790.79	1/2	2,446.38
3/4		3/4		3/4	4,847.53	3/4	4,504.69	3/4	4,161.07	3/4	3,816.66	3/4	3,472.32	3/4	3,128.01	3/4	2,783.61	3/4	2,439.20
4		4		4	4,840.38	4	4,497.55	4	4,153.89	4	3,809.48	4	3,465.14	4	3,120.83	4	2,776.44	4	2,432.03
1/4		1/4		1/4	4,833.24	1/4	4,490.41	1/4	4,146.72	1/4	3,802.31	1/4	3,457.97	1/4	3,113.66	1/4	2,769.26	1/4	2,424.85
1/2		1/2		1/2	4,826.10	1/2	4,483.26	1/2	4,139.54	1/2	3,795.13	1/2	3,450.80	1/2	3,106.49	1/2	2,762.09	1/2	2,417.68
3/4		3/4		3/4	4,818.96	3/4	4,476.12	3/4	4,132.37	3/4	3,787.96	3/4	3,443.62	3/4	3,099.31	3/4	2,754.91	3/4	2,410.50
5		5		5	4,811.81	5	4,468.98	5	4,125.19	5	3,780.78	5	3,436.45	5	3,092.14	5	2,747.74	5	2,403.33
1/4		1/4		1/4	4,804.67	1/4	4,461.84	1/4	4,118.02	1/4	3,773.61	1/4	3,429.28	1/4	3,084.97	1/4	2,740.56	1/4	2,396.15
1/2		1/2		1/2	4,797.53	1/2	4,454.69	1/2	4,110.84	1/2	3,766.43	1/2	3,422.10	1/2	3,077.80	1/2	2,733.39	1/2	2,388.98
3/4		3/4		3/4	5,106.32	3/4	4,790.39	3/4	4,447.55	3/4	4,103.67	3/4	3,759.26	3/4	3,414.93	3/4	3,070.62	3/4	2,726.21
6		6		6	5,102.51	6	4,783.24	6	4,440.41	6	4,096.49	6	3,752.08	6	3,407.76	6	3,063.45	6	2,719.04
1/4		1/4		1/4	5,098.70	1/4	4,776.10	1/4	4,433.27	1/4	4,089.32	1/4	3,744.91	1/4	3,400.58	1/4	3,056.27	1/4	2,711.86
1/2		1/2		1/2	5,094.89	1/2	4,768.96	1/2	4,426.12	1/2	4,082.14	1/2	3,737.73	1/2	3,393.41	1/2	3,049.10	1/2	2,704.69
3/4		3/4		3/4	5,091.09	3/4	4,761.82	3/4	4,418.98	3/4	4,074.97	3/4	3,730.56	3/4	3,386.24	3/4	3,041.92	3/4	2,697.51
7		7		7	5,086.08	7	4,754.67	7	4,411.84	7	4,067.79	7	3,723.38	7	3,379.07	7	3,034.75	7	2,690.34
1/4		1/4		1/4	5,081.08	1/4	4,747.53	1/4	4,404.70	1/4	4,060.61	1/4	3,716.21	1/4	3,371.89	1/4	3,027.57	1/4	2,683.16
1/2		1/2		1/2	5,076.07	1/2	4,740.39	1/2	4,397.55	1/2	4,053.44	1/2	3,709.03	1/2	3,364.72	1/2	3,020.40	1/2	2,675.99
3/4		3/4		3/4	5,071.07	3/4	4,733.25	3/4	4,390.41	3/4	4,046.26	3/4	3,701.85	3/4	3,357.55	3/4	3,013.22	3/4	2,668.81
8		8		8	5,064.87	8	4,726.10	8	4,383.27	8	4,039.09	8	3,694.68	8	3,350.37	8	3,006.05	8	2,661.64
1/4		1/4		1/4	5,058.67	1/4	4,718.96	1/4	4,376.13	1/4	4,031.91	1/4	3,687.51	1/4	3,343.20	1/4	2,998.87	1/4	2,654.46
1/2		1/2		1/2	5,052.47	1/2	4,711.82	1/2	4,368.98	1/2	4,024.74	1/2	3,680.34	1/2	3,336.03	1/2	2,991.69	1/2	2,647.29
3/4		3/4		3/4	5,046.27	3/4	4,704.68	3/4	4,361.84	3/4	4,017.56	3/4	3,673.16	3/4	3,328.85	3/4	2,984.52	3/4	2,640.11
9		9		9	5,039.24	9	4,697.53	9	4,354.70	9	4,010.39	9	3,665.99	9	3,321.68	9	2,977.34	9	2,632.93
1/4		1/4		1/4	5,032.21	1/4	4,690.39	1/4	4,347.56	1/4	4,003.21	1/4	3,658.82	1/4	3,314.51	1/4	2,970.17	1/4	2,625.76
1/2		1/2		1/2	5,025.18	1/2	4,683.25	1/2	4,340.41	1/2	3,996.04	1/2	3,651.64	1/2	3,307.33	1/2	2,962.99	1/2	2,618.58
3/4		3/4		3/4	5,018.15	3/4	4,676.11	3/4	4,333.27	3/4	3,988.86	3/4	3,644.47	3/4	3,300.16	3/4	2,955.82	3/4	2,611.41
10		10		10	5,011.07	10	4,668.97	10	4,326.10	10	3,981.69	10	3,637.30	10	3,292.99	10	2,948.64	10	2,604.23
1/4		1/4		1/4	5,003.99	1/4	4,661.82	1/4	4,318.92	1/4	3,974.51	1/4	3,630.12	1/4	3,285.82	1/4	2,941.47	1/4	2,597.06
1/2		1/2		1/2	4,996.90	1/2	4,654.68	1/2	4,311.75	1/2	3,967.34	1/2	3,622.95	1/2	3,278.64	1/2	2,934.29	1/2	2,589.88
3/4		3/4		3/4	4,989.82	3/4	4,647.54	3/4	4,304.57	3/4	3,960.16	3/4	3,615.78	3/4	3,271.47	3/4	2,927.12	3/4	2,582.71
11		11		11	4,982.73	11	4,640.40	11	4,297.40	11	3,952.99	11	3,608.60	11	3,264.30	11	2,919.94	11	2,575.53
1/4		1/4		1/4	4,975.63	1/4	4,633.25	1/4	4,290.22	1/4	3,945.81	1/4	3,601.43	1/4	3,257.12	1/4	2,912.77	1/4	2,568.36
1/2		1/2		1/2	4,968.53	1/2	4,626.11	1/2	4,283.05	1/2	3,938.64	1/2	3,594.26	1/2	3,249.95	1/2	2,905.59	1/2	2,561.18
3/4		3/4		3/4	4,961.44	3/4	4,618.97	3/4	4,275.87	3/4	3,931.46	3/4	3,587.09	3/4	3,242.78	3/4	2,898.42	3/4	2,554.01

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>





# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

## 2 STBD

## ULLAGE TABLE

## HERMETIC

## GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,202.42	0	1,858.01	0	1,513.60	0	1,169.19	0	825.28	0	480.89	0	136.49	0		0			
1/4	2,195.25	1/4	1,850.84	1/4	1,506.43	1/4	1,162.02	1/4	818.11	1/4	473.71	1/4	129.32	1/4	1/4	1/4			
1/2	2,188.07	1/2	1,843.66	1/2	1,499.25	1/2	1,154.84	1/2	810.93	1/2	466.54	1/2	122.15	1/2	1/2	1/2			
3/4	2,180.90	3/4	1,836.49	3/4	1,492.08	3/4	1,147.67	3/4	803.76	3/4	459.36	3/4	114.97	3/4	3/4	3/4			
1	2,173.72	1	1,829.31	1	1,484.90	1	1,140.49	1	796.58	1	452.19	1	107.81	1	1	1			
1/4	2,166.55	1/4	1,822.14	1/4	1,477.73	1/4	1,133.32	1/4	789.41	1/4	445.01	1/4	100.64	1/4	1/4	1/4			
1/2	2,159.37	1/2	1,814.96	1/2	1,470.55	1/2	1,126.14	1/2	782.23	1/2	437.84	1/2	93.48	1/2	1/2	1/2			
3/4	2,152.20	3/4	1,807.79	3/4	1,463.38	3/4	1,118.97	3/4	775.06	3/4	430.66	3/4	86.31	3/4	3/4	3/4			
2	2,145.02	2	1,800.61	2	1,456.20	2	1,111.80	2	767.88	2	423.49	2	79.18	2	2	2			
1/4	2,137.85	1/4	1,793.44	1/4	1,449.03	1/4	1,104.63	1/4	760.71	1/4	416.31	1/4	72.04	1/4	1/4	1/4			
1/2	2,130.67	1/2	1,786.26	1/2	1,441.85	1/2	1,097.46	1/2	753.53	1/2	409.14	1/2	64.90	1/2	1/2	1/2			
3/4	2,123.50	3/4	1,779.09	3/4	1,434.68	3/4	1,090.29	3/4	746.36	3/4	401.96	3/4	57.76	3/4	3/4	3/4			
3	2,116.32	3	1,771.91	3	1,427.50	3	1,083.13	3	739.18	3	394.79	3	51.48	3	3	3			
1/4	2,109.15	1/4	1,764.74	1/4	1,420.33	1/4	1,075.97	1/4	732.01	1/4	387.61	1/4	45.21	1/4	1/4	1/4			
1/2	2,101.97	1/2	1,757.56	1/2	1,413.15	1/2	1,068.81	1/2	724.83	1/2	380.44	1/2	38.93	1/2	1/2	1/2			
3/4	2,094.79	3/4	1,750.39	3/4	1,405.98	3/4	1,061.65	3/4	717.66	3/4	373.26	3/4	32.65	3/4	3/4	3/4			
4	2,087.62	4	1,743.21	4	1,398.80	4	1,054.49	4	710.48	4	366.09	4	28.17	4	4	4			
1/4	2,080.44	1/4	1,736.03	1/4	1,391.63	1/4	1,047.32	1/4	703.31	1/4	358.91	1/4	23.69	1/4	1/4	1/4			
1/2	2,073.27	1/2	1,728.86	1/2	1,384.45	1/2	1,040.16	1/2	696.13	1/2	351.74	1/2	19.20	1/2	1/2	1/2			
3/4	2,066.09	3/4	1,721.68	3/4	1,377.27	3/4	1,033.00	3/4	688.96	3/4	344.56	3/4	14.72	3/4	3/4	3/4			
5	2,058.92	5	1,714.51	5	1,370.10	5	1,025.84	5	681.78	5	337.39	5		5	5	5			
1/4	2,051.74	1/4	1,707.33	1/4	1,362.92	1/4	1,018.68	1/4	674.61	1/4	330.21	1/4		1/4	1/4	1/4			
1/2	2,044.57	1/2	1,700.16	1/2	1,355.75	1/2	1,011.52	1/2	667.43	1/2	323.04	1/2		1/2	1/2	1/2			
3/4	2,037.39	3/4	1,692.98	3/4	1,348.57	3/4	1,004.36	3/4	660.26	3/4	315.86	3/4		3/4	3/4	3/4			
6	2,030.22	6	1,685.81	6	1,341.40	6	997.20	6	653.08	6	308.69	6		6	6	6			
1/4	2,023.04	1/4	1,678.63	1/4	1,334.22	1/4	990.04	1/4	645.91	1/4	301.51	1/4		1/4	1/4	1/4			
1/2	2,015.87	1/2	1,671.46	1/2	1,327.05	1/2	982.87	1/2	638.73	1/2	294.34	1/2		1/2	1/2	1/2			
3/4	2,008.69	3/4	1,664.28	3/4	1,319.87	3/4	975.71	3/4	631.56	3/4	287.16	3/4		3/4	3/4	3/4			
7	2,001.52	7	1,657.11	7	1,312.70	7	968.55	7	624.39	7	279.99	7		7	7	7			
1/4	1,994.34	1/4	1,649.93	1/4	1,305.52	1/4	961.39	1/4	617.21	1/4	272.82	1/4		1/4	1/4	1/4			
1/2	1,987.17	1/2	1,642.76	1/2	1,298.35	1/2	954.23	1/2	610.04	1/2	265.64	1/2		1/2	1/2	1/2			
3/4	1,979.99	3/4	1,635.58	3/4	1,291.17	3/4	947.07	3/4	602.86	3/4	258.47	3/4		3/4	3/4	3/4			
8	1,972.82	8	1,628.41	8	1,284.00	8	939.91	8	595.69	8	251.29	8		8	8	8			
1/4	1,965.64	1/4	1,621.23	1/4	1,276.82	1/4	932.75	1/4	588.51	1/4	244.12	1/4		1/4	1/4	1/4			
1/2	1,958.47	1/2	1,614.06	1/2	1,269.65	1/2	925.59	1/2	581.34	1/2	236.94	1/2		1/2	1/2	1/2			
3/4	1,951.29	3/4	1,606.88	3/4	1,262.47	3/4	918.43	3/4	574.16	3/4	229.77	3/4		3/4	3/4	3/4			
9	1,944.12	9	1,599.71	9	1,255.30	9	911.26	9	566.99	9	222.59	9		9	9	9			
1/4	1,936.94	1/4	1,592.53	1/4	1,248.12	1/4	904.10	1/4	559.81	1/4	215.42	1/4		1/4	1/4	1/4			
1/2	1,929.77	1/2	1,585.36	1/2	1,240.95	1/2	896.94	1/2	552.64	1/2	208.24	1/2		1/2	1/2	1/2			
3/4	1,922.59	3/4	1,578.18	3/4	1,233.77	3/4	889.78	3/4	545.46	3/4	201.07	3/4		3/4	3/4	3/4			
10	1,915.41	10	1,571.01	10	1,226.60	10	882.62	10	538.29	10	193.89	10		10	10	10			
1/4	1,908.24	1/4	1,563.83	1/4	1,219.42	1/4	875.46	1/4	531.11	1/4	186.72	1/4		1/4	1/4	1/4			
1/2	1,901.06	1/2	1,556.65	1/2	1,212.25	1/2	868.30	1/2	523.94	1/2	179.54	1/2		1/2	1/2	1/2			
3/4	1,893.89	3/4	1,549.48	3/4	1,205.07	3/4	861.14	3/4	516.76	3/4	172.37	3/4		3/4	3/4	3/4			
11	1,886.71	11	1,542.30	11	1,197.89	11	853.97	11	509.59	11	165.19	11		11	11	11			
1/4	1,879.54	1/4	1,535.13	1/4	1,190.72	1/4	846.80	1/4	502.41	1/4	158.02	1/4		1/4	1/4	1/4			
1/2	1,872.36	1/2	1,527.95	1/2	1,183.54	1/2	839.63	1/2	495.24	1/2	150.84	1/2		1/2	1/2	1/2			
3/4	1,865.19	3/4	1,520.78	3/4	1,176.37	3/4	832.46	3/4	488.06	3/4	143.67	3/4		3/4	3/4	3/4			

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020



# BARGE "HSM 3312"

formerly the  
BARGE "FMT 3312"

## 3 PORT ULLAGE TABLE

### HERMETIC

#### GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0	4,296.88	0	4,088.38	0	3,879.51	0	3,669.90	0	3,460.56	0	3,194.31	0	2,853.05	0	2,511.70
1/4	1/4	1/4	1/4	1/4	4,292.56	1/4	4,084.03	1/4	3,875.15	1/4	3,665.54	1/4	3,456.21	1/4	3,187.22	1/4	2,845.94	1/4	2,504.59
1/2	1/2	1/2	1/2	1/2	4,288.24	1/2	4,079.68	1/2	3,870.78	1/2	3,661.17	1/2	3,451.86	1/2	3,180.13	1/2	2,838.83	1/2	2,497.48
3/4	3/4	3/4	3/4	3/4	4,283.92	3/4	4,075.34	3/4	3,866.41	3/4	3,656.80	3/4	3,447.51	3/4	3,173.04	3/4	2,831.72	3/4	2,490.37
1	1	1	1	1	4,279.60	1	4,070.99	1	3,862.05	1	3,652.43	1	3,443.15	1	3,165.95	1	2,824.61	1	2,483.25
1/4	1/4	1/4	1/4	1/4	4,275.28	1/4	4,066.64	1/4	3,857.68	1/4	3,648.07	1/4	3,438.80	1/4	3,158.86	1/4	2,817.49	1/4	2,476.14
1/2	1/2	1/2	1/2	1/2	4,270.96	1/2	4,062.29	1/2	3,853.31	1/2	3,643.70	1/2	3,434.45	1/2	3,151.77	1/2	2,810.38	1/2	2,469.03
3/4	3/4	3/4	3/4	3/4	4,266.64	3/4	4,057.94	3/4	3,848.94	3/4	3,639.33	3/4	3,430.10	3/4	3,144.68	3/4	2,803.27	3/4	2,461.92
2	2	2	2	2	4,262.29	2	4,053.60	2	3,844.58	2	3,634.97	2	3,425.75	2	3,137.59	2	2,796.16	2	2,454.80
1/4	1/4	1/4	1/4	1/4	4,257.94	1/4	4,049.25	1/4	3,840.21	1/4	3,630.60	1/4	3,421.40	1/4	3,130.50	1/4	2,789.05	1/4	2,447.69
1/2	1/2	1/2	1/2	1/2	4,253.60	1/2	4,044.90	1/2	3,835.84	1/2	3,626.23	1/2	3,417.05	1/2	3,123.41	1/2	2,781.94	1/2	2,440.58
3/4	3/4	3/4	3/4	3/4	4,249.25	3/4	4,040.55	3/4	3,831.48	3/4	3,621.87	3/4	3,412.70	3/4	3,116.32	3/4	2,774.83	3/4	2,433.47
3	3	3	3	3	4,244.90	3	4,036.21	3	3,827.11	3	3,617.50	3	3,408.35	3	3,109.21	3	2,767.71	3	2,426.35
1/4	1/4	1/4	1/4	1/4	4,240.55	1/4	4,031.86	1/4	3,822.74	1/4	3,613.13	1/4	3,404.00	1/4	3,102.11	1/4	2,760.60	1/4	2,419.24
1/2	1/2	1/2	1/2	1/2	4,236.20	1/2	4,027.51	1/2	3,818.38	1/2	3,608.77	1/2	3,399.64	1/2	3,095.00	1/2	2,753.49	1/2	2,412.13
3/4	3/4	3/4	3/4	3/4	4,231.86	3/4	4,023.16	3/4	3,814.01	3/4	3,604.40	3/4	3,395.29	3/4	3,087.89	3/4	2,746.38	3/4	2,405.02
4	4	4	4	4	4,227.51	4	4,018.81	4	3,809.64	4	3,600.03	4	3,390.94	4	3,080.78	4	2,739.27	4	2,397.90
1/4	1/4	1/4	1/4	1/4	4,223.16	1/4	4,014.47	1/4	3,805.28	1/4	3,595.66	1/4	3,386.59	1/4	3,073.68	1/4	2,732.16	1/4	2,390.79
1/2	1/2	1/2	1/2	1/2	4,218.81	1/2	4,010.12	1/2	3,800.91	1/2	3,591.30	1/2	3,382.24	1/2	3,066.57	1/2	2,725.04	1/2	2,383.68
3/4	3/4	3/4	3/4	3/4	4,214.47	3/4	4,005.77	3/4	3,796.54	3/4	3,586.93	3/4	3,377.89	3/4	3,059.46	3/4	2,717.93	3/4	2,376.57
5	5	5	5	5	4,210.12	5	4,001.42	5	3,792.18	5	3,582.56	5	3,373.56	5	3,052.35	5	2,710.82	5	2,369.45
1/4	1/4	1/4	1/4	1/4	4,205.77	1/4	3,997.08	1/4	3,787.81	1/4	3,578.20	1/4	3,369.22	1/4	3,045.24	1/4	2,703.71	1/4	2,362.34
1/2	1/2	1/2	1/2	1/2	4,201.42	1/2	3,992.73	1/2	3,783.44	1/2	3,573.83	1/2	3,364.89	1/2	3,038.14	1/2	2,696.60	1/2	2,355.23
3/4	3/4	3/4	3/4	3/4	4,197.07	3/4	3,988.38	3/4	3,779.07	3/4	3,569.46	3/4	3,360.56	3/4	3,031.03	3/4	2,689.49	3/4	2,348.12
6	6	6	6	6	4,192.73	6	3,984.03	6	3,774.71	6	3,565.10	6	3,356.22	6	3,023.91	6	2,682.38	6	2,341.00
1/4	1/4	1/4	1/4	1/4	4,188.38	1/4	3,979.68	1/4	3,770.34	1/4	3,560.73	1/4	3,351.89	1/4	3,016.78	1/4	2,675.26	1/4	2,333.89
1/2	1/2	1/2	1/2	1/2	4,184.03	1/2	3,975.34	1/2	3,765.97	1/2	3,556.36	1/2	3,347.56	1/2	3,009.66	1/2	2,668.15	1/2	2,326.78
3/4	3/4	3/4	3/4	3/4	4,179.68	3/4	3,970.99	3/4	3,761.61	3/4	3,552.00	3/4	3,343.23	3/4	3,002.54	3/4	2,661.04	3/4	2,319.67
7	7	7	7	7	4,175.34	7	3,966.64	7	3,757.24	7	3,547.63	7	3,336.13	7	2,995.41	7	2,653.93	7	2,312.55
1/4	1/4	1/4	1/4	1/4	4,170.99	1/4	3,962.29	1/4	3,752.87	1/4	3,543.26	1/4	3,329.04	1/4	2,988.29	1/4	2,646.82	1/4	2,305.44
1/2	1/2	1/2	1/2	1/2	4,166.64	1/2	3,957.95	1/2	3,748.51	1/2	3,538.89	1/2	3,321.95	1/2	2,981.17	1/2	2,639.71	1/2	2,298.33
3/4	3/4	3/4	3/4	3/4	4,162.29	3/4	3,953.60	3/4	3,744.14	3/4	3,534.53	3/4	3,314.86	3/4	2,974.04	3/4	2,632.60	3/4	2,291.22
8	8	8	8	8	4,157.94	8	3,949.25	8	3,739.77	8	3,530.18	8	3,307.77	8	2,966.92	8	2,625.48	8	2,284.10
1/4	1/4	1/4	1/4	1/4	4,153.60	1/4	3,944.90	1/4	3,735.41	1/4	3,525.83	1/4	3,300.68	1/4	2,959.80	1/4	2,618.37	1/4	2,276.99
1/2	1/2	1/2	1/2	1/2	4,149.25	1/2	3,940.55	1/2	3,731.04	1/2	3,521.47	1/2	3,293.58	1/2	2,952.67	1/2	2,611.26	1/2	2,269.88
3/4	3/4	3/4	3/4	3/4	4,144.90	3/4	3,936.21	3/4	3,726.67	3/4	3,517.12	3/4	3,286.49	3/4	2,945.55	3/4	2,604.15	3/4	2,262.77
9	9	9	9	9	4,140.55	9	3,931.86	9	3,722.30	9	3,512.77	9	3,279.40	9	2,938.43	9	2,597.04	9	2,255.65
1/4	1/4	1/4	1/4	1/4	4,136.21	1/4	3,927.51	1/4	3,717.94	1/4	3,508.42	1/4	3,272.31	1/4	2,931.30	1/4	2,589.93	1/4	2,248.54
1/2	1/2	1/2	1/2	1/2	4,131.86	1/2	3,923.16	1/2	3,713.57	1/2	3,504.07	1/2	3,265.22	1/2	2,924.18	1/2	2,582.81	1/2	2,241.43
3/4	3/4	3/4	3/4	3/4	4,127.51	3/4	3,918.82	3/4	3,709.20	3/4	3,499.72	3/4	3,258.12	3/4	2,917.06	3/4	2,575.70	3/4	2,234.32
10	10	10	10	10	4,123.16	10	3,914.45	10	3,704.84	10	3,495.37	10	3,251.03	10	2,909.94	10	2,568.59	10	2,227.20
1/4	1/4	1/4	1/4	1/4	4,118.81	1/4	3,910.08	1/4	3,700.47	1/4	3,491.02	1/4	3,243.94	1/4	2,902.83	1/4	2,561.48	1/4	2,220.09
1/2	1/2	1/2	1/2	1/2	4,114.47	1/2	3,905.71	1/2	3,696.10	1/2	3,486.67	1/2	3,236.85	1/2	2,895.72	1/2	2,554.37	1/2	2,212.98
3/4	3/4	3/4	3/4	3/4	4,110.12	3/4	3,901.35	3/4	3,691.74	3/4	3,482.31	3/4	3,229.76	3/4	2,888.61	3/4	2,547.26	3/4	2,205.87
11	11	11	11	11	4,105.77	11	3,896.98	11	3,687.37	11	3,477.96	11	3,222.67	11	2,881.50	11	2,540.15	11	2,198.75
1/4	1/4	1/4	1/4	1/4	4,101.42	1/4	3,892.61	1/4	3,683.00	1/4	3,473.61	1/4	3,215.58	1/4	2,874.39	1/4	2,533.03	1/4	2,191.64
1/2	1/2	1/2	1/2	1/2	4,101.08	1/2	3,888.25	1/2	3,678.64	1/2	3,469.26	1/2	3,208.49	1/2	2,867.27	1/2	2,525.92	1/2	2,184.53
3/4	3/4	3/4	3/4	3/4	4,101.20	3/4	4,092.73	3/4	3,883.88	3/4	3,674.27	3/4	3,464.91	3/4	3,201.40	3/4	2,860.16	3/4	2,177.42

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the  
BARGE "FMT 3312"

## 3 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,170.30	0	1,828.90	0	1,487.50	0	1,146.10	0	818.17	0	477.40	0	135.56	0		0			
1/4	2,163.19	1/4	1,821.79	1/4	1,480.39	1/4	1,138.99	1/4	811.28	1/4	470.29	1/4	128.43	1/4	1/4				
1/2	2,156.08	1/2	1,814.68	1/2	1,473.28	1/2	1,131.88	1/2	804.40	1/2	463.17	1/2	121.31	1/2	1/2				
3/4	2,148.97	3/4	1,807.57	3/4	1,466.17	3/4	1,124.77	3/4	797.52	3/4	456.06	3/4	114.18	3/4	3/4				
1	2,141.85	1	1,800.45	1	1,459.05	1	1,117.88	1	790.41	1	448.94	1	107.07	1	1				
1/4	2,134.74	1/4	1,793.34	1/4	1,451.94	1/4	1,111.00	1/4	783.29	1/4	441.83	1/4	99.95	1/4	1/4				
1/2	2,127.63	1/2	1,786.23	1/2	1,444.83	1/2	1,104.12	1/2	776.18	1/2	434.72	1/2	92.84	1/2	1/2				
3/4	2,120.52	3/4	1,779.12	3/4	1,437.72	3/4	1,097.24	3/4	769.07	3/4	427.60	3/4	85.72	3/4	3/4				
2	2,113.40	2	1,772.00	2	1,430.60	2	1,090.43	2	761.95	2	420.49	2	78.63	2	2				
1/4	2,106.29	1/4	1,764.89	1/4	1,423.49	1/4	1,083.62	1/4	754.84	1/4	413.38	1/4	71.55	1/4	1/4				
1/2	2,099.18	1/2	1,757.78	1/2	1,416.38	1/2	1,076.81	1/2	747.72	1/2	406.26	1/2	64.46	1/2	1/2				
3/4	2,092.07	3/4	1,750.67	3/4	1,409.27	3/4	1,069.99	3/4	740.61	3/4	399.15	3/4	57.37	3/4	3/4				
3	2,084.95	3	1,743.55	3	1,402.15	3	1,063.19	3	733.50	3	392.03	3	51.13	3	3				
1/4	2,077.84	1/4	1,736.44	1/4	1,395.04	1/4	1,056.39	1/4	726.38	1/4	384.92	1/4	44.90	1/4	1/4				
1/2	2,070.73	1/2	1,729.33	1/2	1,387.93	1/2	1,049.58	1/2	719.27	1/2	377.81	1/2	38.67	1/2	1/2				
3/4	2,063.62	3/4	1,722.22	3/4	1,380.82	3/4	1,042.78	3/4	712.15	3/4	370.69	3/4	32.43	3/4	3/4				
4	2,056.50	4	1,715.10	4	1,373.70	4	1,035.98	4	705.04	4	363.57	4	27.98	4	4				
1/4	2,049.39	1/4	1,707.99	1/4	1,366.59	1/4	1,029.18	1/4	697.93	1/4	356.44	1/4	23.53	1/4	1/4				
1/2	2,042.28	1/2	1,700.88	1/2	1,359.48	1/2	1,022.37	1/2	690.81	1/2	349.32	1/2	19.07	1/2	1/2				
3/4	2,035.17	3/4	1,693.77	3/4	1,352.37	3/4	1,015.57	3/4	683.70	3/4	342.19	3/4	14.62	3/4	3/4				
5	2,028.05	5	1,686.65	5	1,345.25	5	1,008.77	5	676.59	5	335.07	5		5	5				
1/4	2,020.94	1/4	1,679.54	1/4	1,338.14	1/4	1,001.96	1/4	669.47	1/4	327.94	1/4		1/4	1/4				
1/2	2,013.83	1/2	1,672.43	1/2	1,331.03	1/2	995.16	1/2	662.36	1/2	320.81	1/2		1/2	1/2				
3/4	2,006.72	3/4	1,665.32	3/4	1,323.92	3/4	988.36	3/4	655.24	3/4	313.69	3/4		3/4	3/4				
6	1,999.60	6	1,658.20	6	1,316.80	6	981.55	6	648.13	6	306.56	6		6	6				
1/4	1,992.49	1/4	1,651.09	1/4	1,309.69	1/4	974.75	1/4	641.02	1/4	299.44	1/4		1/4	1/4				
1/2	1,985.38	1/2	1,643.98	1/2	1,302.58	1/2	967.95	1/2	633.90	1/2	292.31	1/2		1/2	1/2				
3/4	1,978.27	3/4	1,636.87	3/4	1,295.47	3/4	961.14	3/4	626.79	3/4	285.19	3/4		3/4	3/4				
7	1,971.15	7	1,629.75	7	1,288.35	7	954.34	7	619.68	7	278.06	7		7	7				
1/4	1,964.04	1/4	1,622.64	1/4	1,281.24	1/4	947.54	1/4	612.56	1/4	270.94	1/4		1/4	1/4				
1/2	1,956.93	1/2	1,615.53	1/2	1,274.13	1/2	940.73	1/2	605.45	1/2	263.81	1/2		1/2	1/2				
3/4	1,949.82	3/4	1,608.42	3/4	1,267.02	3/4	933.93	3/4	598.33	3/4	256.69	3/4		3/4	3/4				
8	1,942.70	8	1,601.30	8	1,259.90	8	927.13	8	591.22	8	249.56	8		8	8				
1/4	1,935.59	1/4	1,594.19	1/4	1,252.79	1/4	920.32	1/4	584.11	1/4	242.44	1/4		1/4	1/4				
1/2	1,928.48	1/2	1,587.08	1/2	1,245.68	1/2	913.52	1/2	576.99	1/2	235.31	1/2		1/2	1/2				
3/4	1,921.37	3/4	1,579.97	3/4	1,238.57	3/4	906.72	3/4	569.88	3/4	228.18	3/4		3/4	3/4				
9	1,914.25	9	1,572.85	9	1,231.45	9	899.91	9	562.77	9	221.06	9		9	9				
1/4	1,907.14	1/4	1,565.74	1/4	1,224.34	1/4	893.11	1/4	555.65	1/4	213.93	1/4		1/4	1/4				
1/2	1,900.03	1/2	1,558.63	1/2	1,217.23	1/2	886.31	1/2	548.54	1/2	206.81	1/2		1/2	1/2				
3/4	1,892.92	3/4	1,551.52	3/4	1,210.12	3/4	879.50	3/4	541.42	3/4	199.68	3/4		3/4	3/4				
10	1,885.80	10	1,544.40	10	1,203.00	10	872.70	10	534.31	10	192.56	10		10	10				
1/4	1,878.69	1/4	1,537.29	1/4	1,195.89	1/4	865.90	1/4	527.20	1/4	185.43	1/4		1/4	1/4				
1/2	1,871.58	1/2	1,530.18	1/2	1,188.78	1/2	859.10	1/2	520.08	1/2	178.31	1/2		1/2	1/2				
3/4	1,864.47	3/4	1,523.07	3/4	1,181.67	3/4	852.29	3/4	512.97	3/4	171.18	3/4		3/4	3/4				
11	1,857.35	11	1,515.95	11	1,174.55	11	845.48	11	505.85	11	164.06	11		11	11				
1/4	1,850.24	1/4	1,508.84	1/4	1,167.44	1/4	838.67	1/4	498.74	1/4	156.93	1/4		1/4	1/4				
1/2	1,843.13	1/2	1,501.73	1/2	1,160.33	1/2	831.86	1/2	491.63	1/2	149.81	1/2		1/2	1/2				
3/4	1,836.02	3/4	1,494.62	3/4	1,153.22	3/4	825.05	3/4	484.51	3/4	142.68	3/4		3/4	3/4				

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020



# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

### 3 STBD

### ULLAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,313.30	0	4,104.75	0	3,895.83	0	3,686.17	0	3,476.51	0	3,210.04	0	2,869.24	0	2,528.00
1/4		1/4		1/4	4,308.98	1/4	4,100.40	1/4	3,891.46	1/4	3,681.80	1/4	3,472.14	1/4	3,202.96	1/4	2,862.14	1/4	2,520.87
1/2		1/2		1/2	4,304.66	1/2	4,096.05	1/2	3,887.09	1/2	3,677.43	1/2	3,467.77	1/2	3,195.87	1/2	2,855.03	1/2	2,513.75
3/4		3/4		3/4	4,300.34	3/4	4,091.70	3/4	3,882.72	3/4	3,673.07	3/4	3,463.41	3/4	3,188.78	3/4	2,847.93	3/4	2,506.62
1		1		1	4,296.02	1	4,087.35	1	3,878.36	1	3,668.70	1	3,459.04	1	3,181.70	1	2,840.83	1	2,499.50
1/4		1/4		1/4	4,291.69	1/4	4,083.00	1/4	3,873.99	1/4	3,664.33	1/4	3,454.67	1/4	3,174.61	1/4	2,833.72	1/4	2,492.38
1/2		1/2		1/2	4,287.37	1/2	4,078.65	1/2	3,869.62	1/2	3,659.96	1/2	3,450.30	1/2	3,167.52	1/2	2,826.62	1/2	2,485.26
3/4		3/4		3/4	4,283.05	3/4	4,074.30	3/4	3,865.25	3/4	3,655.59	3/4	3,445.93	3/4	3,160.44	3/4	2,819.51	3/4	2,478.14
2		2		2	4,278.70	2	4,069.96	2	3,860.89	2	3,651.23	2	3,441.57	2	3,153.35	2	2,812.41	2	2,471.01
1/4		1/4		1/4	4,274.35	1/4	4,065.61	1/4	3,856.52	1/4	3,646.86	1/4	3,437.20	1/4	3,146.26	1/4	2,805.31	1/4	2,463.89
1/2		1/2		1/2	4,270.00	1/2	4,061.26	1/2	3,852.15	1/2	3,642.49	1/2	3,432.83	1/2	3,139.18	1/2	2,798.20	1/2	2,456.77
3/4		3/4		3/4	4,265.66	3/4	4,056.91	3/4	3,847.78	3/4	3,638.12	3/4	3,428.46	3/4	3,132.09	3/4	2,791.10	3/4	2,449.65
3		3		3	4,261.31	3	4,052.56	3	3,843.41	3	3,633.75	3	3,424.10	3	3,124.99	3	2,783.99	3	2,442.53
1/4		1/4		1/4	4,256.96	1/4	4,048.21	1/4	3,839.05	1/4	3,629.39	1/4	3,419.73	1/4	3,117.88	1/4	2,776.89	1/4	2,435.40
1/2		1/2		1/2	4,252.61	1/2	4,043.86	1/2	3,834.68	1/2	3,625.02	1/2	3,415.36	1/2	3,110.78	1/2	2,769.79	1/2	2,428.28
3/4		3/4		3/4	4,248.26	3/4	4,039.51	3/4	3,830.31	3/4	3,620.65	3/4	3,410.99	3/4	3,103.67	3/4	2,762.68	3/4	2,421.16
4		4		4	4,243.91	4	4,035.16	4	3,825.94	4	3,616.28	4	3,406.62	4	3,096.57	4	2,755.58	4	2,414.04
1/4		1/4		1/4	4,239.56	1/4	4,030.82	1/4	3,821.57	1/4	3,611.91	1/4	3,402.26	1/4	3,089.47	1/4	2,748.47	1/4	2,406.92
1/2		1/2		1/2	4,235.21	1/2	4,026.47	1/2	3,817.21	1/2	3,607.55	1/2	3,397.89	1/2	3,082.36	1/2	2,741.37	1/2	2,399.79
3/4		3/4		3/4	4,230.86	3/4	4,022.12	3/4	3,812.84	3/4	3,603.18	3/4	3,393.52	3/4	3,075.26	3/4	2,734.27	3/4	2,392.67
5		5		5	4,226.52	5	4,017.77	5	3,808.47	5	3,598.81	5	3,389.19	5	3,068.15	5	2,727.16	5	2,385.55
1/4		1/4		1/4	4,222.17	1/4	4,013.42	1/4	3,804.10	1/4	3,594.44	1/4	3,384.86	1/4	3,061.05	1/4	2,720.06	1/4	2,378.43
1/2		1/2		1/2	4,217.82	1/2	4,009.07	1/2	3,799.73	1/2	3,590.08	1/2	3,380.52	1/2	3,053.95	1/2	2,712.95	1/2	2,371.30
3/4		3/4		3/4	4,398.66	3/4	4,213.47	3/4	4,004.72	3/4	3,795.37	3/4	3,585.71	3/4	3,376.19	3/4	3,046.84	3/4	2,364.18
6		6		6	4,396.95	6	4,209.12	6	4,000.37	6	3,791.00	6	3,581.34	6	3,371.86	6	3,039.74	6	2,357.06
1/4		1/4		1/4	4,395.25	1/4	4,204.77	1/4	3,996.02	1/4	3,786.63	1/4	3,576.97	1/4	3,367.53	1/4	3,032.63	1/4	2,349.94
1/2		1/2		1/2	4,393.54	1/2	4,200.42	1/2	3,991.68	1/2	3,782.26	1/2	3,572.60	1/2	3,363.19	1/2	3,025.53	1/2	2,342.82
3/4		3/4		3/4	4,391.83	3/4	4,196.07	3/4	3,987.33	3/4	3,777.90	3/4	3,568.24	3/4	3,358.86	3/4	3,018.43	3/4	2,335.69
7		7		7	4,389.59	7	4,191.72	7	3,982.98	7	3,773.53	7	3,563.87	7	3,351.77	7	3,011.32	7	2,328.57
1/4		1/4		1/4	4,387.35	1/4	4,187.38	1/4	3,978.63	1/4	3,769.16	1/4	3,559.50	1/4	3,344.69	1/4	3,004.22	1/4	2,321.45
1/2		1/2		1/2	4,385.10	1/2	4,183.03	1/2	3,974.28	1/2	3,764.79	1/2	3,555.13	1/2	3,337.60	1/2	2,997.11	1/2	2,314.33
3/4		3/4		3/4	4,382.86	3/4	4,178.68	3/4	3,969.93	3/4	3,760.42	3/4	3,550.76	3/4	3,330.52	3/4	2,990.01	3/4	2,307.21
8		8		8	4,379.43	8	4,174.33	8	3,965.58	8	3,756.06	8	3,546.40	8	3,323.43	8	2,982.91	8	2,300.08
1/4		1/4		1/4	4,376.00	1/4	4,169.98	1/4	3,961.23	1/4	3,751.69	1/4	3,542.03	1/4	3,316.34	1/4	2,975.80	1/4	2,292.96
1/2		1/2		1/2	4,372.56	1/2	4,165.63	1/2	3,956.88	1/2	3,747.32	1/2	3,537.66	1/2	3,309.26	1/2	2,968.70	1/2	2,285.84
3/4		3/4		3/4	4,369.13	3/4	4,161.28	3/4	3,952.54	3/4	3,742.95	3/4	3,533.29	3/4	3,302.17	3/4	2,961.59	3/4	2,278.72
9		9		9	4,364.88	9	4,156.93	9	3,948.19	9	3,738.58	9	3,528.92	9	3,295.08	9	2,954.49	9	2,271.60
1/4		1/4		1/4	4,363.63	1/4	4,152.58	1/4	3,943.84	1/4	3,734.22	1/4	3,524.56	1/4	3,288.00	1/4	2,947.39	1/4	2,264.47
1/2		1/2		1/2	4,356.38	1/2	4,148.24	1/2	3,939.49	1/2	3,729.85	1/2	3,520.19	1/2	3,280.91	1/2	2,940.28	1/2	2,257.35
3/4		3/4		3/4	4,352.12	3/4	4,143.89	3/4	3,935.14	3/4	3,725.48	3/4	3,515.82	3/4	3,273.82	3/4	2,933.18	3/4	2,250.23
10		10		10	4,347.82	10	4,139.54	10	3,930.77	10	3,721.11	10	3,511.45	10	3,266.74	10	2,926.07	10	2,243.11
1/4		1/4		1/4	4,343.51	1/4	4,135.19	1/4	3,926.40	1/4	3,716.74	1/4	3,507.09	1/4	3,259.65	1/4	2,918.97	1/4	2,235.98
1/2		1/2		1/2	4,339.20	1/2	4,130.84	1/2	3,922.04	1/2	3,712.38	1/2	3,502.72	1/2	3,252.56	1/2	2,911.87	1/2	2,228.86
3/4		3/4		3/4	4,334.89	3/4	4,126.49	3/4	3,917.67	3/4	3,708.01	3/4	3,498.35	3/4	3,245.48	3/4	2,904.76	3/4	2,221.74
11		11		11	4,330.58	11	4,122.14	11	3,913.30	11	3,703.64	11	3,493.98	11	3,238.39	11	2,897.66	11	2,214.62
1/4		1/4		1/4	4,326.26	1/4	4,117.79	1/4	3,908.93	1/4	3,699.27	1/4	3,489.61	1/4	3,231.30	1/4	2,890.55	1/4	2,207.50
1/2		1/2		1/2	4,321.94	1/2	4,113.44	1/2	3,904.56	1/2	3,694.91	1/2	3,485.25	1/2	3,224.22	1/2	2,883.45	1/2	2,200.37
3/4		3/4		3/4	4,317.62	3/4	4,109.10	3/4	3,900.20	3/4	3,690.54	3/4	3,480.88	3/4	3,217.13	3/4	2,876.35	3/4	2,193.25

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the  
BARGE "FMT 3312"

**3 STBD**  
**ULLAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 16'-04 3/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,186.13	0	1,844.27	0	1,502.41	0	1,160.55	0	819.18	0	477.33	0	135.48	0		0		0	
1/4	2,179.01	1/4	1,837.15	1/4	1,495.29	1/4	1,153.43	1/4	812.06	1/4	470.21	1/4	128.36	1/4	1/4	1/4		1/4	
1/2	2,171.89	1/2	1,830.03	1/2	1,488.16	1/2	1,146.30	1/2	804.94	1/2	463.09	1/2	121.24	1/2	1/2	1/2		1/2	
3/4	2,164.76	3/4	1,822.90	3/4	1,481.04	3/4	1,139.18	3/4	797.82	3/4	455.96	3/4	114.12	3/4	3/4	3/4		3/4	
1	2,157.64	1	1,815.78	1	1,473.92	1	1,132.06	1	790.69	1	448.84	1	107.01	1	1	1		1	
1/4	2,150.52	1/4	1,808.66	1/4	1,466.80	1/4	1,124.94	1/4	783.57	1/4	441.72	1/4	99.90	1/4	1/4	1/4		1/4	
1/2	2,143.40	1/2	1,801.54	1/2	1,459.68	1/2	1,117.82	1/2	776.45	1/2	434.60	1/2	92.78	1/2	1/2	1/2		1/2	
3/4	2,136.28	3/4	1,794.41	3/4	1,452.55	3/4	1,110.69	3/4	769.33	3/4	427.48	3/4	85.67	3/4	3/4	3/4		3/4	
2	2,129.15	2	1,787.29	2	1,445.43	2	1,103.58	2	762.21	2	420.35	2	78.59	2	2	2		2	
1/4	2,122.03	1/4	1,780.17	1/4	1,438.31	1/4	1,096.46	1/4	755.08	1/4	413.23	1/4	71.50	1/4	1/4	1/4		1/4	
1/2	2,114.91	1/2	1,773.05	1/2	1,431.19	1/2	1,089.34	1/2	747.96	1/2	406.11	1/2	64.42	1/2	1/2	1/2		1/2	
3/4	2,107.79	3/4	1,765.93	3/4	1,424.07	3/4	1,082.23	3/4	740.84	3/4	398.99	3/4	57.33	3/4	3/4	3/4		3/4	
3	2,100.67	3	1,758.80	3	1,416.94	3	1,075.12	3	733.72	3	391.87	3	51.10	3	3	3		3	
1/4	2,093.54	1/4	1,751.68	1/4	1,409.82	1/4	1,068.01	1/4	726.60	1/4	384.74	1/4	44.87	1/4	1/4	1/4		1/4	
1/2	2,086.42	1/2	1,744.56	1/2	1,402.70	1/2	1,060.90	1/2	719.47	1/2	377.62	1/2	38.64	1/2	1/2	1/2		1/2	
3/4	2,079.30	3/4	1,737.44	3/4	1,395.58	3/4	1,053.80	3/4	712.35	3/4	370.50	3/4	32.41	3/4	3/4	3/4		3/4	
4	2,072.18	4	1,730.32	4	1,388.46	4	1,046.69	4	705.23	4	363.38	4	27.96	4	4	4		4	
1/4	2,065.05	1/4	1,723.19	1/4	1,381.33	1/4	1,039.58	1/4	698.11	1/4	356.26	1/4	23.51	1/4	1/4	1/4		1/4	
1/2	2,057.93	1/2	1,716.07	1/2	1,374.21	1/2	1,032.47	1/2	690.99	1/2	349.14	1/2	19.06	1/2	1/2	1/2		1/2	
3/4	2,050.81	3/4	1,708.95	3/4	1,367.09	3/4	1,025.36	3/4	683.86	3/4	342.01	3/4	14.61	3/4	3/4	3/4		3/4	
5	2,043.69	5	1,701.83	5	1,359.97	5	1,018.25	5	676.74	5	334.89	5		5	5	5		5	
1/4	2,036.57	1/4	1,694.71	1/4	1,352.84	1/4	1,011.15	1/4	669.62	1/4	327.77	1/4		1/4	1/4	1/4		1/4	
1/2	2,029.44	1/2	1,687.58	1/2	1,345.72	1/2	1,004.04	1/2	662.50	1/2	320.65	1/2		1/2	1/2	1/2		1/2	
3/4	2,022.32	3/4	1,680.46	3/4	1,338.60	3/4	996.93	3/4	655.38	3/4	313.53	3/4		3/4	3/4	3/4		3/4	
6	2,015.20	6	1,673.34	6	1,331.48	6	989.82	6	648.26	6	306.40	6		6	6	6		6	
1/4	2,008.08	1/4	1,666.22	1/4	1,324.36	1/4	982.71	1/4	641.13	1/4	299.28	1/4		1/4	1/4	1/4		1/4	
1/2	2,000.96	1/2	1,659.09	1/2	1,317.23	1/2	975.61	1/2	634.01	1/2	292.16	1/2		1/2	1/2	1/2		1/2	
3/4	1,993.83	3/4	1,651.97	3/4	1,310.11	3/4	968.50	3/4	626.89	3/4	285.04	3/4		3/4	3/4	3/4		3/4	
7	1,986.71	7	1,644.85	7	1,302.99	7	961.39	7	619.77	7	277.92	7		7	7	7		7	
1/4	1,979.59	1/4	1,637.73	1/4	1,295.87	1/4	954.28	1/4	612.65	1/4	270.79	1/4		1/4	1/4	1/4		1/4	
1/2	1,972.47	1/2	1,630.61	1/2	1,288.75	1/2	947.17	1/2	605.52	1/2	263.67	1/2		1/2	1/2	1/2		1/2	
3/4	1,965.35	3/4	1,623.48	3/4	1,281.62	3/4	940.06	3/4	598.40	3/4	256.55	3/4		3/4	3/4	3/4		3/4	
8	1,958.22	8	1,616.36	8	1,274.50	8	932.96	8	591.28	8	249.43	8		8	8	8		8	
1/4	1,951.10	1/4	1,609.24	1/4	1,267.38	1/4	925.85	1/4	584.16	1/4	242.31	1/4		1/4	1/4	1/4		1/4	
1/2	1,943.98	1/2	1,602.12	1/2	1,260.26	1/2	918.74	1/2	577.04	1/2	235.19	1/2		1/2	1/2	1/2		1/2	
3/4	1,936.86	3/4	1,595.00	3/4	1,253.14	3/4	911.63	3/4	569.91	3/4	228.06	3/4		3/4	3/4	3/4		3/4	
9	1,929.73	9	1,587.87	9	1,246.01	9	904.53	9	562.79	9	220.94	9		9	9	9		9	
1/4	1,922.61	1/4	1,580.75	1/4	1,238.89	1/4	897.42	1/4	555.67	1/4	213.82	1/4		1/4	1/4	1/4		1/4	
1/2	1,915.49	1/2	1,573.63	1/2	1,231.77	1/2	890.31	1/2	548.55	1/2	206.70	1/2		1/2	1/2	1/2		1/2	
3/4	1,908.37	3/4	1,566.51	3/4	1,224.65	3/4	883.20	3/4	541.43	3/4	199.58	3/4		3/4	3/4	3/4		3/4	
10	1,901.25	10	1,559.39	10	1,217.52	10	876.09	10	534.30	10	192.45	10		10	10	10		10	
1/4	1,894.12	1/4	1,552.26	1/4	1,210.40	1/4	868.99	1/4	527.18	1/4	185.33	1/4		1/4	1/4	1/4		1/4	
1/2	1,887.00	1/2	1,545.14	1/2	1,203.28	1/2	861.88	1/2	520.06	1/2	178.21	1/2		1/2	1/2	1/2		1/2	
3/4	1,879.88	3/4	1,538.02	3/4	1,196.16	3/4	854.77	3/4	512.94	3/4	171.09	3/4		3/4	3/4	3/4		3/4	
11	1,872.76	11	1,530.90	11	1,189.04	11	847.65	11	505.82	11	163.97	11		11	11	11		11	
1/4	1,865.64	1/4	1,523.77	1/4	1,181.91	1/4	840.54	1/4	498.70	1/4	156.84	1/4		1/4	1/4	1/4		1/4	
1/2	1,858.51	1/2	1,516.65	1/2	1,174.79	1/2	833.42	1/2	491.57	1/2	149.72	1/2		1/2	1/2	1/2		1/2	
3/4	1,851.39	3/4	1,509.53	3/4	1,167.67	3/4	826.30	3/4	484.45	3/4	142.60	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020

# BARGE "HSM 3312"

formerly the

BARGE "FMT 3312"

INNAGE (10" HATCH)



	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
1 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
2 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
2 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-0/8	08-0/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
3 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-0/8	08-0/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 08-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-03 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

July 22, 2020

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

**1 PORT**  
**INNAGE TABLE**

**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.16	0	252.33	0	583.46	0	925.32	0	1,267.43	0	1,610.73	0	1,954.03	0	2,297.33	0	2,640.63	0	2,983.91
1/4	3.94	1/4	258.81	1/4	590.62	1/4	932.41	1/4	1,274.58	1/4	1,617.88	1/4	1,961.18	1/4	2,304.48	1/4	2,647.78	1/4	2,991.06
1/2	5.73	1/2	265.30	1/2	597.77	1/2	939.50	1/2	1,281.73	1/2	1,625.03	1/2	1,968.33	1/2	2,311.63	1/2	2,654.93	1/2	2,998.21
3/4	7.52	3/4	271.78	3/4	604.92	3/4	946.59	3/4	1,288.88	3/4	1,632.19	3/4	1,975.49	3/4	2,318.79	3/4	2,662.08	3/4	3,005.36
1	9.31	1	278.26	1	612.07	1	953.69	1	1,296.04	1	1,639.34	1	1,982.64	1	2,325.94	1	2,669.24	1	3,012.51
1/4	12.11	1/4	284.83	1/4	619.22	1/4	960.78	1/4	1,303.19	1/4	1,646.49	1/4	1,989.79	1/4	2,333.09	1/4	2,676.39	1/4	3,019.66
1/2	14.91	1/2	291.40	1/2	626.38	1/2	967.87	1/2	1,310.34	1/2	1,653.64	1/2	1,996.94	1/2	2,340.24	1/2	2,683.54	1/2	3,026.81
3/4	17.72	3/4	297.96	3/4	633.53	3/4	974.96	3/4	1,317.49	3/4	1,660.79	3/4	2,004.09	3/4	2,347.40	3/4	2,690.69	3/4	3,033.96
2	20.52	2	304.53	2	640.68	2	982.05	2	1,324.64	2	1,667.95	2	2,011.25	2	2,354.55	2	2,697.84	2	3,041.11
1/4	24.38	1/4	311.18	1/4	647.83	1/4	989.14	1/4	1,331.80	1/4	1,675.10	1/4	2,018.40	1/4	2,361.70	1/4	2,704.99	1/4	3,048.26
1/2	28.24	1/2	317.83	1/2	654.98	1/2	996.24	1/2	1,338.95	1/2	1,682.25	1/2	2,025.55	1/2	2,368.85	1/2	2,712.15	1/2	3,055.41
3/4	32.09	3/4	324.48	3/4	662.13	3/4	1,003.33	3/4	1,346.10	3/4	1,689.40	3/4	2,032.70	3/4	2,376.00	3/4	2,719.30	3/4	3,062.56
3	35.95	3	331.13	3	669.29	3	1,010.42	3	1,353.25	3	1,696.55	3	2,039.85	3	2,383.16	3	2,726.45	3	3,069.71
1/4	41.22	1/4	337.87	1/4	676.44	1/4	1,017.52	1/4	1,360.41	1/4	1,703.71	1/4	2,047.01	1/4	2,390.31	1/4	2,733.60	1/4	3,076.86
1/2	46.48	1/2	344.60	1/2	683.59	1/2	1,024.61	1/2	1,367.56	1/2	1,710.86	1/2	2,054.16	1/2	2,397.46	1/2	2,740.75	1/2	3,084.01
3/4	51.75	3/4	351.34	3/4	690.74	3/4	1,031.71	3/4	1,374.71	3/4	1,718.01	3/4	2,061.31	3/4	2,404.61	3/4	2,747.90	3/4	3,091.16
4	57.02	4	358.07	4	697.89	4	1,038.80	4	1,381.86	4	1,725.16	4	2,068.46	4	2,411.76	4	2,755.06	4	3,098.31
1/4	62.81	1/4	364.89	1/4	705.05	1/4	1,045.91	1/4	1,389.01	1/4	1,732.31	1/4	2,075.62	1/4	2,418.92	1/4	2,762.21	1/4	3,105.46
1/2	68.60	1/2	371.71	1/2	712.20	1/2	1,053.02	1/2	1,396.17	1/2	1,739.47	1/2	2,082.77	1/2	2,426.07	1/2	2,769.36	1/2	3,112.61
3/4	74.39	3/4	378.52	3/4	719.35	3/4	1,060.13	3/4	1,403.32	3/4	1,746.62	3/4	2,089.92	3/4	2,433.22	3/4	2,776.51	3/4	3,119.76
5	80.18	5	385.34	5	726.50	5	1,067.24	5	1,410.47	5	1,753.77	5	2,097.07	5	2,440.37	5	2,783.66	5	3,126.91
1/4	86.07	1/4	392.24	1/4	733.64	1/4	1,074.37	1/4	1,417.62	1/4	1,760.92	1/4	2,104.22	1/4	2,447.52	1/4	2,790.81	1/4	3,134.06
1/2	91.97	1/2	399.14	1/2	740.77	1/2	1,081.51	1/2	1,424.77	1/2	1,768.08	1/2	2,111.38	1/2	2,454.68	1/2	2,797.97	1/2	3,141.21
3/4	97.86	3/4	406.04	3/4	747.91	3/4	1,088.64	3/4	1,431.93	3/4	1,775.23	3/4	2,118.53	3/4	2,461.83	3/4	2,805.12	3/4	3,148.36
6	103.75	6	412.95	6	755.04	6	1,095.78	6	1,439.08	6	1,782.38	6	2,125.68	6	2,468.98	6	2,812.27	6	3,155.51
1/4	109.73	1/4	419.93	1/4	762.15	1/4	1,102.93	1/4	1,446.23	1/4	1,789.53	1/4	2,132.83	1/4	2,476.13	1/4	2,819.42	1/4	3,162.66
1/2	115.71	1/2	426.91	1/2	769.26	1/2	1,110.08	1/2	1,453.38	1/2	1,796.68	1/2	2,139.98	1/2	2,483.29	1/2	2,826.57	1/2	3,169.81
3/4	121.69	3/4	433.89	3/4	776.37	3/4	1,117.23	3/4	1,460.53	3/4	1,803.84	3/4	2,147.14	3/4	2,490.44	3/4	2,833.72	3/4	3,176.96
7	127.68	7	440.87	7	783.47	7	1,124.39	7	1,467.69	7	1,810.99	7	2,154.29	7	2,497.59	7	2,840.87	7	3,184.11
1/4	133.74	1/4	447.94	1/4	790.57	1/4	1,131.54	1/4	1,474.84	1/4	1,818.14	1/4	2,161.44	1/4	2,504.74	1/4	2,848.03	1/4	3,191.26
1/2	139.81	1/2	455.00	1/2	797.67	1/2	1,138.69	1/2	1,481.99	1/2	1,825.29	1/2	2,168.59	1/2	2,511.89	1/2	2,855.18	1/2	3,198.41
3/4	145.87	3/4	462.06	3/4	804.76	3/4	1,145.84	3/4	1,489.14	3/4	1,832.44	3/4	2,175.74	3/4	2,519.05	3/4	2,862.33	3/4	3,205.55
8	151.94	8	469.13	8	811.86	8	1,152.99	8	1,496.30	8	1,839.60	8	2,182.90	8	2,526.20	8	2,869.48	8	3,212.70
1/4	158.09	1/4	476.26	1/4	818.95	1/4	1,160.15	1/4	1,503.45	1/4	1,846.75	1/4	2,190.05	1/4	2,533.35	1/4	2,876.63	1/4	3,219.85
1/2	164.24	1/2	483.38	1/2	826.04	1/2	1,167.30	1/2	1,510.60	1/2	1,853.90	1/2	2,197.20	1/2	2,540.50	1/2	2,883.78	1/2	3,227.00
3/4	170.39	3/4	490.51	3/4	833.13	3/4	1,174.45	3/4	1,517.75	3/4	1,861.05	3/4	2,204.35	3/4	2,547.65	3/4	2,890.94	3/4	3,234.15
9	176.53	9	497.64	9	840.22	9	1,181.60	9	1,524.90	9	1,868.20	9	2,211.51	9	2,554.81	9	2,898.09	9	3,241.30
1/4	182.77	1/4	504.79	1/4	847.31	1/4	1,188.76	1/4	1,532.06	1/4	1,875.36	1/4	2,218.66	1/4	2,561.96	1/4	2,905.24	1/4	3,248.45
1/2	189.00	1/2	511.94	1/2	854.40	1/2	1,195.91	1/2	1,539.21	1/2	1,882.51	1/2	2,225.81	1/2	2,569.11	1/2	2,912.39	1/2	3,255.60
3/4	195.23	3/4	519.10	3/4	861.50	3/4	1,203.06	3/4	1,546.36	3/4	1,889.66	3/4	2,232.96	3/4	2,576.26	3/4	2,919.54	3/4	3,262.75
10	201.47	10	526.25	10	868.59	10	1,210.21	10	1,553.51	10	1,896.81	10	2,240.11	10	2,583.41	10	2,926.69	10	3,269.90
1/4	207.78	1/4	533.40	1/4	875.68	1/4	1,217.36	1/4	1,560.66	1/4	1,903.97	1/4	2,247.27	1/4	2,590.57	1/4	2,933.85	1/4	3,277.05
1/2	214.10	1/2	540.55	1/2	882.77	1/2	1,224.52	1/2	1,567.82	1/2	1,911.12	1/2	2,254.42	1/2	2,597.72	1/2	2,941.00	1/2	3,284.20
3/4	220.41	3/4	547.70	3/4	889.86	3/4	1,231.67	3/4	1,574.97	3/4	1,918.27	3/4	2,261.57	3/4	2,604.87	3/4	2,948.15	3/4	3,291.35
11	226.73	11	554.86	11	896.95	11	1,238.82	11	1,582.12	11	1,925.42	11	2,268.72	11	2,612.02	11	2,955.30	11	3,298.50
1/4	233.13	1/4	562.01	1/4	904.05	1/4	1,245.97	1/4	1,589.27	1/4	1,932.57	1/4	2,275.87	1/4	2,619.17	1/4	2,962.45	1/4	3,305.65
1/2	239.53	1/2	569.16	1/2	911.14	1/2	1,253.12	1/2	1,596.42	1/2	1,939.73	1/2	2,283.03	1/2	2,626.33	1/2	2,969.60	1/2	3,312.80
3/4	245.93	3/4	576.31	3/4	918.23	3/4	1,260.28	3/4	1,603.58	3/4	1,946.88	3/4	2,290.18	3/4	2,633.48	3/4	2,976.76	3/4	3,319.95

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>





**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**1 PORT**  
**INNAGE TABLE**  
**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,327.10	0	3,670.29	0	4,013.58	0	4,356.40	0	4,698.11	0	5,019.66	0		0		0		0	
1/4	3,334.25	1/4	3,677.45	1/4	4,020.73	1/4	4,363.52	1/4	4,705.23	1/4	5,022.86	1/4		1/4		1/4		1/4	
1/2	3,341.40	1/2	3,684.60	1/2	4,027.88	1/2	4,370.64	1/2	4,712.35	1/2	5,026.06	1/2		1/2		1/2		1/2	
3/4	3,348.55	3/4	3,691.75	3/4	4,035.03	3/4	4,377.76	3/4	4,719.47	3/4	5,029.26	3/4		3/4		3/4		3/4	
1	3,355.70	1	3,698.90	1	4,042.18	1	4,384.87	1	4,726.59	1	5,032.46	1		1		1		1	
1/4	3,362.85	1/4	3,706.05	1/4	4,049.33	1/4	4,391.99	1/4	4,733.71	1/4	5,034.47	1/4		1/4		1/4		1/4	
1/2	3,370.00	1/2	3,713.21	1/2	4,056.49	1/2	4,399.11	1/2	4,740.82	1/2	5,036.48	1/2		1/2		1/2		1/2	
3/4	3,377.15	3/4	3,720.36	3/4	4,063.64	3/4	4,406.23	3/4	4,747.94	3/4	5,038.48	3/4		3/4		3/4		3/4	
2	3,384.30	2	3,727.51	2	4,070.79	2	4,413.35	2	4,755.06	2	5,040.49	2		2		2		2	
1/4	3,391.45	1/4	3,734.66	1/4	4,077.94	1/4	4,420.47	1/4	4,762.18	1/4	5,041.42	1/4		1/4		1/4		1/4	
1/2	3,398.60	1/2	3,741.81	1/2	4,085.09	1/2	4,427.59	1/2	4,769.30	1/2	5,042.35	1/2		1/2		1/2		1/2	
3/4	3,405.75	3/4	3,748.96	3/4	4,092.25	3/4	4,434.71	3/4	4,776.42	3/4	5,043.28	3/4		3/4		3/4		3/4	
3	3,412.90	3	3,756.12	3	4,099.40	3	4,441.83	3	4,783.54	3	5,044.21	3		3		3		3	
1/4	3,420.05	1/4	3,763.27	1/4	4,106.55	1/4	4,448.95	1/4	4,790.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,427.20	1/2	3,770.42	1/2	4,113.70	1/2	4,456.06	1/2	4,797.78	1/2		1/2		1/2		1/2		1/2	
3/4	3,434.35	3/4	3,777.57	3/4	4,120.85	3/4	4,463.18	3/4	4,804.90	3/4		3/4		3/4		3/4		3/4	
4	3,441.49	4	3,784.72	4	4,128.00	4	4,470.30	4	4,812.01	4		4		4		4		4	
1/4	3,448.64	1/4	3,791.87	1/4	4,135.16	1/4	4,477.42	1/4	4,819.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,455.79	1/2	3,799.03	1/2	4,142.31	1/2	4,484.54	1/2	4,826.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,462.94	3/4	3,806.18	3/4	4,149.46	3/4	4,491.66	3/4	4,833.30	3/4		3/4		3/4		3/4		3/4	
5	3,470.09	5	3,813.33	5	4,156.61	5	4,498.78	5	4,840.40	5		5		5		5		5	
1/4	3,477.24	1/4	3,820.48	1/4	4,163.76	1/4	4,505.90	1/4	4,847.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,484.39	1/2	3,827.63	1/2	4,170.91	1/2	4,513.02	1/2	4,854.55	1/2		1/2		1/2		1/2		1/2	
3/4	3,491.54	3/4	3,834.78	3/4	4,178.07	3/4	4,520.14	3/4	4,861.62	3/4		3/4		3/4		3/4		3/4	
6	3,498.69	6	3,841.94	6	4,185.22	6	4,527.25	6	4,868.70	6		6		6		6		6	
1/4	3,505.84	1/4	3,849.09	1/4	4,192.37	1/4	4,534.37	1/4	4,875.77	1/4		1/4		1/4		1/4		1/4	
1/2	3,512.99	1/2	3,856.24	1/2	4,199.52	1/2	4,541.49	1/2	4,882.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,520.14	3/4	3,863.39	3/4	4,206.67	3/4	4,548.61	3/4	4,889.92	3/4		3/4		3/4		3/4		3/4	
7	3,527.29	7	3,870.54	7	4,213.82	7	4,555.73	7	4,896.99	7		7		7		7		7	
1/4	3,534.44	1/4	3,877.69	1/4	4,220.98	1/4	4,562.85	1/4	4,904.06	1/4		1/4		1/4		1/4		1/4	
1/2	3,541.59	1/2	3,884.85	1/2	4,228.13	1/2	4,569.97	1/2	4,911.12	1/2		1/2		1/2		1/2		1/2	
3/4	3,548.74	3/4	3,892.00	3/4	4,235.28	3/4	4,577.09	3/4	4,918.19	3/4		3/4		3/4		3/4		3/4	
8	3,555.89	8	3,899.15	8	4,242.43	8	4,584.21	8	4,925.26	8		8		8		8		8	
1/4	3,563.04	1/4	3,906.30	1/4	4,249.57	1/4	4,591.33	1/4	4,932.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,570.19	1/2	3,913.45	1/2	4,256.70	1/2	4,598.44	1/2	4,939.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,577.34	3/4	3,920.60	3/4	4,263.84	3/4	4,605.56	3/4	4,946.35	3/4		3/4		3/4		3/4		3/4	
9	3,584.49	9	3,927.76	9	4,270.97	9	4,612.68	9	4,953.39	9		9		9		9		9	
1/4	3,591.64	1/4	3,934.91	1/4	4,278.09	1/4	4,619.80	1/4	4,959.98	1/4		1/4		1/4		1/4		1/4	
1/2	3,598.79	1/2	3,942.06	1/2	4,285.21	1/2	4,626.92	1/2	4,966.57	1/2		1/2		1/2		1/2		1/2	
3/4	3,605.94	3/4	3,949.21	3/4	4,292.33	3/4	4,634.04	3/4	4,973.16	3/4		3/4		3/4		3/4		3/4	
10	3,613.09	10	3,956.36	10	4,299.45	10	4,641.16	10	4,979.76	10		10		10		10		10	
1/4	3,620.24	1/4	3,963.51	1/4	4,306.57	1/4	4,648.28	1/4	4,985.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,627.39	1/2	3,970.67	1/2	4,313.68	1/2	4,655.40	1/2	4,990.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,634.54	3/4	3,977.82	3/4	4,320.80	3/4	4,662.52	3/4	4,996.51	3/4		3/4		3/4		3/4		3/4	
11	3,641.69	11	3,984.97	11	4,327.92	11	4,669.63	11	5,002.09	11		11		11		11		11	
1/4	3,648.84	1/4	3,992.12	1/4	4,335.04	1/4	4,676.75	1/4	5,006.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,655.99	1/2	3,999.27	1/2	4,342.16	1/2	4,683.87	1/2	5,010.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,663.14	3/4	4,006.42	3/4	4,349.28	3/4	4,690.99	3/4	5,015.27	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020





# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

**1 STBD  
INNAGE TABLE**

**10" HATCH  
GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	252.05	0	582.91	0	925.72	0	1,268.57	0	1,611.55	0	1,954.53	0	2,297.51	0	2,640.48	0	2,983.44
1/4	3.94	1/4	258.53	1/4	590.05	1/4	932.85	1/4	1,275.71	1/4	1,618.69	1/4	1,961.67	1/4	2,304.65	1/4	2,647.63	1/4	2,990.58
1/2	5.73	1/2	265.01	1/2	597.20	1/2	939.99	1/2	1,282.86	1/2	1,625.84	1/2	1,968.82	1/2	2,311.80	1/2	2,654.77	1/2	2,997.73
3/4	7.51	3/4	271.48	3/4	604.34	3/4	947.13	3/4	1,290.01	3/4	1,632.98	3/4	1,975.96	3/4	2,318.94	3/4	2,661.92	3/4	3,004.87
1	9.30	1	277.96	1	611.49	1	954.26	1	1,297.15	1	1,640.13	1	1,983.11	1	2,326.09	1	2,669.06	1	3,012.02
1/4	12.10	1/4	284.52	1/4	618.63	1/4	961.40	1/4	1,304.30	1/4	1,647.28	1/4	1,990.25	1/4	2,333.23	1/4	2,676.21	1/4	3,019.16
1/2	14.90	1/2	291.08	1/2	625.78	1/2	968.53	1/2	1,311.44	1/2	1,654.42	1/2	1,997.40	1/2	2,340.38	1/2	2,683.35	1/2	3,026.30
3/4	17.70	3/4	297.64	3/4	632.92	3/4	975.67	3/4	1,318.59	3/4	1,661.57	3/4	2,004.55	3/4	2,347.52	3/4	2,690.50	3/4	3,033.45
2	20.50	2	304.20	2	640.07	2	982.81	2	1,325.73	2	1,668.71	2	2,011.69	2	2,354.67	2	2,697.64	2	3,040.59
1/4	24.35	1/4	310.85	1/4	647.22	1/4	989.94	1/4	1,332.88	1/4	1,675.86	1/4	2,018.84	1/4	2,361.82	1/4	2,704.79	1/4	3,047.73
1/2	28.20	1/2	317.49	1/2	654.36	1/2	997.08	1/2	1,340.02	1/2	1,683.00	1/2	2,025.98	1/2	2,368.96	1/2	2,711.93	1/2	3,054.88
3/4	32.06	3/4	324.13	3/4	661.51	3/4	1,004.22	3/4	1,347.17	3/4	1,690.15	3/4	2,033.13	3/4	2,376.11	3/4	2,719.08	3/4	3,062.02
3	35.91	3	330.78	3	668.65	3	1,011.35	3	1,354.31	3	1,697.29	3	2,040.27	3	2,383.25	3	2,726.22	3	3,069.16
1/4	41.17	1/4	337.51	1/4	675.80	1/4	1,018.49	1/4	1,361.46	1/4	1,704.44	1/4	2,047.42	1/4	2,390.40	1/4	2,733.37	1/4	3,076.31
1/2	46.43	1/2	344.23	1/2	682.94	1/2	1,025.64	1/2	1,368.60	1/2	1,711.58	1/2	2,054.56	1/2	2,397.54	1/2	2,740.51	1/2	3,083.45
3/4	51.69	3/4	350.96	3/4	690.09	3/4	1,032.78	3/4	1,375.75	3/4	1,718.73	3/4	2,061.71	3/4	2,404.69	3/4	2,747.66	3/4	3,090.59
4	56.95	4	357.69	4	697.23	4	1,039.92	4	1,382.90	4	1,725.87	4	2,068.85	4	2,411.83	4	2,754.80	4	3,097.73
1/4	62.74	1/4	364.50	1/4	704.38	1/4	1,047.06	1/4	1,390.04	1/4	1,733.02	1/4	2,076.00	1/4	2,418.98	1/4	2,761.95	1/4	3,104.88
1/2	68.52	1/2	371.31	1/2	711.52	1/2	1,054.21	1/2	1,397.19	1/2	1,740.17	1/2	2,083.14	1/2	2,426.12	1/2	2,769.09	1/2	3,112.02
3/4	74.31	3/4	378.12	3/4	718.67	3/4	1,061.35	3/4	1,404.33	3/4	1,747.31	3/4	2,090.29	3/4	2,433.27	3/4	2,776.24	3/4	3,119.16
5	80.09	5	384.93	5	725.81	5	1,068.50	5	1,411.48	5	1,754.46	5	2,097.44	5	2,440.41	5	2,783.38	5	3,126.31
1/4	85.98	1/4	391.83	1/4	732.96	1/4	1,075.64	1/4	1,418.62	1/4	1,761.60	1/4	2,104.58	1/4	2,447.56	1/4	2,790.53	1/4	3,133.45
1/2	91.86	1/2	398.72	1/2	740.10	1/2	1,082.79	1/2	1,425.77	1/2	1,768.75	1/2	2,111.73	1/2	2,454.71	1/2	2,797.67	1/2	3,140.59
3/4	97.75	3/4	405.62	3/4	747.25	3/4	1,089.93	3/4	1,432.91	3/4	1,775.89	3/4	2,118.87	3/4	2,461.85	3/4	2,804.82	3/4	3,147.74
6	103.63	6	412.51	6	754.39	6	1,097.08	6	1,440.06	6	1,783.04	6	2,126.02	6	2,469.00	6	2,811.96	6	3,154.88
1/4	109.61	1/4	419.49	1/4	761.54	1/4	1,104.22	1/4	1,447.20	1/4	1,790.18	1/4	2,133.16	1/4	2,476.14	1/4	2,819.11	1/4	3,162.02
1/2	115.58	1/2	426.47	1/2	768.68	1/2	1,111.37	1/2	1,454.35	1/2	1,797.33	1/2	2,140.31	1/2	2,483.29	1/2	2,826.25	1/2	3,169.16
3/4	121.56	3/4	433.44	3/4	775.83	3/4	1,118.52	3/4	1,461.49	3/4	1,804.47	3/4	2,147.45	3/4	2,490.43	3/4	2,833.40	3/4	3,176.31
7	127.53	7	440.42	7	782.97	7	1,125.66	7	1,468.64	7	1,811.62	7	2,154.60	7	2,497.58	7	2,840.54	7	3,183.45
1/4	133.59	1/4	447.48	1/4	790.11	1/4	1,132.81	1/4	1,475.79	1/4	1,818.76	1/4	2,161.74	1/4	2,504.72	1/4	2,847.69	1/4	3,190.59
1/2	139.65	1/2	454.55	1/2	797.25	1/2	1,139.95	1/2	1,482.93	1/2	1,825.91	1/2	2,168.89	1/2	2,511.87	1/2	2,854.83	1/2	3,197.74
3/4	145.71	3/4	461.61	3/4	804.39	3/4	1,147.10	3/4	1,490.08	3/4	1,833.06	3/4	2,176.03	3/4	2,519.01	3/4	2,861.98	3/4	3,204.88
8	151.77	8	468.67	8	811.53	8	1,154.24	8	1,497.22	8	1,840.20	8	2,183.18	8	2,526.16	8	2,869.12	8	3,212.02
1/4	157.91	1/4	475.79	1/4	818.67	1/4	1,161.39	1/4	1,504.37	1/4	1,847.35	1/4	2,190.33	1/4	2,533.30	1/4	2,876.27	1/4	3,219.17
1/2	164.05	1/2	482.92	1/2	825.81	1/2	1,168.53	1/2	1,511.51	1/2	1,854.49	1/2	2,197.47	1/2	2,540.45	1/2	2,883.41	1/2	3,226.31
3/4	170.20	3/4	490.04	3/4	832.94	3/4	1,175.68	3/4	1,518.66	3/4	1,861.64	3/4	2,204.62	3/4	2,547.60	3/4	2,890.56	3/4	3,233.45
9	176.34	9	497.17	9	840.08	9	1,182.82	9	1,525.80	9	1,868.78	9	2,211.76	9	2,554.74	9	2,897.70	9	3,240.59
1/4	182.57	1/4	504.31	1/4	847.21	1/4	1,189.97	1/4	1,532.95	1/4	1,875.93	1/4	2,218.91	1/4	2,561.89	1/4	2,904.85	1/4	3,247.74
1/2	188.79	1/2	511.46	1/2	854.35	1/2	1,197.11	1/2	1,540.09	1/2	1,883.07	1/2	2,226.05	1/2	2,569.03	1/2	2,911.99	1/2	3,254.88
3/4	195.02	3/4	518.60	3/4	861.49	3/4	1,204.26	3/4	1,547.24	3/4	1,890.22	3/4	2,233.20	3/4	2,576.18	3/4	2,919.14	3/4	3,262.02
10	201.24	10	525.75	10	868.62	10	1,211.41	10	1,554.38	10	1,897.36	10	2,240.34	10	2,583.32	10	2,926.28	10	3,269.17
1/4	207.55	1/4	532.89	1/4	875.76	1/4	1,218.55	1/4	1,561.53	1/4	1,904.51	1/4	2,247.49	1/4	2,590.47	1/4	2,933.43	1/4	3,276.31
1/2	213.86	1/2	540.04	1/2	882.90	1/2	1,225.70	1/2	1,568.68	1/2	1,911.65	1/2	2,254.63	1/2	2,597.61	1/2	2,940.57	1/2	3,283.45
3/4	220.17	3/4	547.18	3/4	890.03	3/4	1,232.84	3/4	1,575.82	3/4	1,918.80	3/4	2,261.78	3/4	2,604.76	3/4	2,947.72	3/4	3,290.60
11	226.48	11	554.33	11	897.17	11	1,239.99	11	1,582.97	11	1,925.95	11	2,268.92	11	2,611.90	11	2,954.86	11	3,297.74
1/4	232.88	1/4	561.47	1/4	904.31	1/4	1,247.13	1/4	1,590.11	1/4	1,933.09	1/4	2,276.07	1/4	2,619.05	1/4	2,962.01	1/4	3,304.88
1/2	239.27	1/2	568.62	1/2	911.44	1/2	1,254.28	1/2	1,597.26	1/2	1,940.24	1/2	2,283.22	1/2	2,626.19	1/2	2,969.15	1/2	3,312.02
3/4	245.66	3/4	575.76	3/4	918.58	3/4	1,261.42	3/4	1,604.40	3/4	1,947.38	3/4	2,290.36	3/4	2,633.34	3/4	2,976.29	3/4	3,319.17

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**1 STBD**  
**INNAGE TABLE**  
**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,326.31	0	3,669.18	0	4,012.14	0	4,354.64	0	4,696.04	0	5,017.28	0		0		0		0	
1/4	3,333.45	1/4	3,676.33	1/4	4,019.29	1/4	4,361.76	1/4	4,703.15	1/4	5,020.48	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,340.60	1/2	3,683.47	1/2	4,026.43	1/2	4,368.87	1/2	4,710.26	1/2	5,023.67	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,347.74	3/4	3,690.62	3/4	4,033.58	3/4	4,375.98	3/4	4,717.37	3/4	5,026.87	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,354.88	1	3,697.76	1	4,040.72	1	4,383.09	1	4,724.48	1	5,030.07	1	1	1	1	1	1	1	1
1/4	3,362.03	1/4	3,704.91	1/4	4,047.87	1/4	4,390.21	1/4	4,731.60	1/4	5,032.07	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,369.17	1/2	3,712.05	1/2	4,055.01	1/2	4,397.32	1/2	4,738.71	1/2	5,034.08	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,376.31	3/4	3,719.20	3/4	4,062.16	3/4	4,404.43	3/4	4,745.82	3/4	5,036.09	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,383.45	2	3,726.34	2	4,069.30	2	4,411.54	2	4,752.93	2	5,038.09	2	2	2	2	2	2	2	2
1/4	3,390.60	1/4	3,733.49	1/4	4,076.45	1/4	4,418.66	1/4	4,760.05	1/4	5,039.02	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,397.74	1/2	3,740.63	1/2	4,083.59	1/2	4,425.77	1/2	4,767.16	1/2	5,039.95	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,404.88	3/4	3,747.78	3/4	4,090.74	3/4	4,432.88	3/4	4,774.27	3/4	5,040.88	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,412.03	3	3,754.92	3	4,097.88	3	4,439.99	3	4,781.38	3	5,041.81	3	3	3	3	3	3	3	3
1/4	3,419.17	1/4	3,762.07	1/4	4,105.03	1/4	4,447.10	1/4	4,788.50	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,426.31	1/2	3,769.21	1/2	4,112.17	1/2	4,454.22	1/2	4,795.61	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,433.46	3/4	3,776.36	3/4	4,119.32	3/4	4,461.33	3/4	4,802.72	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,440.60	4	3,783.50	4	4,126.46	4	4,468.44	4	4,809.83	4	4	4	4	4	4	4	4	4	4
1/4	3,447.74	1/4	3,790.65	1/4	4,133.61	1/4	4,475.55	1/4	4,816.92	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,454.88	1/2	3,797.79	1/2	4,140.75	1/2	4,482.67	1/2	4,824.01	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,462.03	3/4	3,804.94	3/4	4,147.90	3/4	4,489.78	3/4	4,831.10	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,469.17	5	3,812.08	5	4,155.04	5	4,496.89	5	4,838.19	5	5	5	5	5	5	5	5	5	5
1/4	3,476.31	1/4	3,819.23	1/4	4,162.19	1/4	4,504.00	1/4	4,845.26	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,483.46	1/2	3,826.37	1/2	4,169.33	1/2	4,511.12	1/2	4,852.33	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,490.60	3/4	3,833.52	3/4	4,176.48	3/4	4,518.23	3/4	4,859.39	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,497.74	6	3,840.66	6	4,183.62	6	4,525.34	6	4,866.46	6	6	6	6	6	6	6	6	6	6
1/4	3,504.89	1/4	3,847.81	1/4	4,190.77	1/4	4,532.45	1/4	4,873.53	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,512.03	1/2	3,854.95	1/2	4,197.91	1/2	4,539.56	1/2	4,880.59	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,519.17	3/4	3,862.10	3/4	4,205.06	3/4	4,546.68	3/4	4,887.66	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,526.31	7	3,869.24	7	4,212.20	7	4,553.79	7	4,894.73	7	7	7	7	7	7	7	7	7	7
1/4	3,533.46	1/4	3,876.39	1/4	4,219.35	1/4	4,560.90	1/4	4,901.79	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,540.60	1/2	3,883.53	1/2	4,226.49	1/2	4,568.01	1/2	4,908.85	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,547.74	3/4	3,890.68	3/4	4,233.64	3/4	4,575.13	3/4	4,915.91	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,554.89	8	3,897.82	8	4,240.78	8	4,582.24	8	4,922.97	8	8	8	8	8	8	8	8	8	8
1/4	3,562.03	1/4	3,904.97	1/4	4,247.91	1/4	4,589.35	1/4	4,929.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,569.17	1/2	3,912.11	1/2	4,255.04	1/2	4,596.46	1/2	4,937.02	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,576.31	3/4	3,919.26	3/4	4,262.17	3/4	4,603.58	3/4	4,944.04	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,583.46	9	3,926.40	9	4,269.30	9	4,610.69	9	4,951.07	9	9	9	9	9	9	9	9	9	9
1/4	3,590.60	1/4	3,933.55	1/4	4,276.41	1/4	4,617.80	1/4	4,957.65	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,597.74	1/2	3,940.69	1/2	4,283.52	1/2	4,624.91	1/2	4,964.24	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,604.89	3/4	3,947.84	3/4	4,290.63	3/4	4,632.02	3/4	4,970.83	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,612.03	10	3,954.98	10	4,297.75	10	4,639.14	10	4,977.41	10	10	10	10	10	10	10	10	10	10
1/4	3,619.17	1/4	3,962.13	1/4	4,304.86	1/4	4,646.25	1/4	4,982.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,626.32	1/2	3,969.27	1/2	4,311.97	1/2	4,653.36	1/2	4,988.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,633.46	3/4	3,976.42	3/4	4,319.08	3/4	4,660.47	3/4	4,994.15	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,640.60	11	3,983.56	11	4,326.20	11	4,667.59	11	4,999.73	11	11	11	11	11	11	11	11	11	11
1/4	3,647.75	1/4	3,990.71	1/4	4,333.31	1/4	4,674.70	1/4	5,004.12	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,654.89	1/2	3,997.85	1/2	4,340.42	1/2	4,681.81	1/2	5,008.50	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,662.04	3/4	4,005.00	3/4	4,347.53	3/4	4,688.92	3/4	5,012.89	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

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# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

## 2 PORT

## INNAGE TABLE

### 10" HATCH

### GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	299.83	0	642.31	0	976.94	0	1,312.81	0	1,655.30	0	1,997.79	0	2,340.28	0	2,682.77	0	3,025.26
1/4	3.93	1/4	306.97	1/4	649.44	1/4	983.77	1/4	1,319.94	1/4	1,662.43	1/4	2,004.92	1/4	2,347.41	1/4	2,689.90	1/4	3,032.39
1/2	5.72	1/2	314.10	1/2	656.58	1/2	990.60	1/2	1,327.08	1/2	1,669.57	1/2	2,012.06	1/2	2,354.55	1/2	2,697.04	1/2	3,039.51
3/4	7.50	3/4	321.24	3/4	663.71	3/4	997.42	3/4	1,334.21	3/4	1,676.70	3/4	2,019.19	3/4	2,361.68	3/4	2,704.17	3/4	3,046.64
1	9.28	1	328.37	1	670.85	1	1,004.25	1	1,341.35	1	1,683.84	1	2,026.33	1	2,368.82	1	2,711.31	1	3,053.77
1/4	12.85	1/4	335.51	1/4	677.98	1/4	1,011.08	1/4	1,348.48	1/4	1,690.97	1/4	2,033.46	1/4	2,375.95	1/4	2,718.44	1/4	3,060.91
1/2	16.42	1/2	342.64	1/2	685.12	1/2	1,017.91	1/2	1,355.62	1/2	1,698.11	1/2	2,040.60	1/2	2,383.09	1/2	2,725.58	1/2	3,068.04
3/4	19.98	3/4	349.78	3/4	692.25	3/4	1,024.74	3/4	1,362.76	3/4	1,705.24	3/4	2,047.73	3/4	2,390.22	3/4	2,732.71	3/4	3,075.17
2	23.55	2	356.91	2	699.39	2	1,031.56	2	1,369.89	2	1,712.38	2	2,054.87	2	2,397.36	2	2,739.85	2	3,082.31
1/4	28.90	1/4	364.05	1/4	706.52	1/4	1,038.39	1/4	1,377.03	1/4	1,719.52	1/4	2,062.00	1/4	2,404.49	1/4	2,746.98	1/4	3,089.44
1/2	34.25	1/2	371.18	1/2	713.66	1/2	1,045.22	1/2	1,384.16	1/2	1,726.65	1/2	2,069.14	1/2	2,411.63	1/2	2,754.12	1/2	3,096.57
3/4	39.60	3/4	378.32	3/4	720.79	3/4	1,052.05	3/4	1,391.30	3/4	1,733.79	3/4	2,076.27	3/4	2,418.76	3/4	2,761.25	3/4	3,103.70
3	44.95	3	385.45	3	727.93	3	1,058.88	3	1,398.43	3	1,740.92	3	2,083.41	3	2,425.90	3	2,768.39	3	3,110.84
1/4	51.62	1/4	392.59	1/4	735.06	1/4	1,065.71	1/4	1,405.57	1/4	1,748.06	1/4	2,090.55	1/4	2,433.04	1/4	2,775.52	1/4	3,117.97
1/2	58.29	1/2	399.72	1/2	742.20	1/2	1,072.54	1/2	1,412.70	1/2	1,755.19	1/2	2,097.68	1/2	2,440.17	1/2	2,782.66	1/2	3,125.10
3/4	64.96	3/4	406.86	3/4	749.33	3/4	1,079.37	3/4	1,419.84	3/4	1,762.33	3/4	2,104.82	3/4	2,447.31	3/4	2,789.80	3/4	3,132.24
4	71.64	4	413.99	4	756.47	4	1,086.21	4	1,426.97	4	1,769.46	4	2,111.95	4	2,454.44	4	2,796.93	4	3,139.37
1/4	78.75	1/4	421.13	1/4	763.60	1/4	1,093.05	1/4	1,434.11	1/4	1,776.60	1/4	2,119.09	1/4	2,461.58	1/4	2,804.07	1/4	3,146.50
1/2	85.86	1/2	428.26	1/2	770.74	1/2	1,099.90	1/2	1,441.24	1/2	1,783.73	1/2	2,126.22	1/2	2,468.71	1/2	2,811.20	1/2	3,153.64
3/4	92.97	3/4	435.39	3/4	777.87	3/4	1,106.74	3/4	1,448.38	3/4	1,790.87	3/4	2,133.36	3/4	2,475.85	3/4	2,818.34	3/4	3,160.77
5	100.08	5	442.53	5	785.01	5	1,113.59	5	1,455.51	5	1,798.00	5	2,140.49	5	2,482.98	5	2,825.47	5	3,167.90
1/4	107.21	1/4	449.66	1/4	792.00	1/4	1,120.58	1/4	1,462.65	1/4	1,805.14	1/4	2,147.63	1/4	2,490.12	1/4	2,832.61	1/4	3,175.04
1/2	114.34	1/2	456.80	1/2	798.99	1/2	1,127.58	1/2	1,469.78	1/2	1,812.27	1/2	2,154.76	1/2	2,497.25	1/2	2,839.74	1/2	3,182.17
3/4	121.47	3/4	463.93	3/4	805.99	3/4	1,134.57	3/4	1,476.92	3/4	1,819.41	3/4	2,161.90	3/4	2,504.39	3/4	2,846.88	3/4	3,189.30
6	128.60	6	471.07	6	812.98	6	1,141.56	6	1,484.05	6	1,826.54	6	2,169.03	6	2,511.52	6	2,854.01	6	3,196.44
1/4	135.73	1/4	478.20	1/4	819.83	1/4	1,148.70	1/4	1,491.19	1/4	1,833.68	1/4	2,176.17	1/4	2,518.66	1/4	2,861.15	1/4	3,203.57
1/2	142.87	1/2	485.34	1/2	826.67	1/2	1,155.83	1/2	1,498.32	1/2	1,840.81	1/2	2,183.30	1/2	2,525.79	1/2	2,868.28	1/2	3,210.70
3/4	150.00	3/4	492.47	3/4	833.52	3/4	1,162.97	3/4	1,505.46	3/4	1,847.95	3/4	2,190.44	3/4	2,532.93	3/4	2,875.42	3/4	3,217.83
7	157.13	7	499.61	7	840.36	7	1,170.10	7	1,512.59	7	1,855.08	7	2,197.57	7	2,540.06	7	2,882.55	7	3,224.97
1/4	164.27	1/4	506.74	1/4	847.19	1/4	1,177.24	1/4	1,519.73	1/4	1,862.22	1/4	2,204.71	1/4	2,547.20	1/4	2,889.69	1/4	3,232.10
1/2	171.40	1/2	513.88	1/2	854.02	1/2	1,184.38	1/2	1,526.86	1/2	1,869.35	1/2	2,211.84	1/2	2,554.33	1/2	2,896.82	1/2	3,239.23
3/4	178.54	3/4	521.01	3/4	860.86	3/4	1,191.51	3/4	1,534.00	3/4	1,876.49	3/4	2,218.98	3/4	2,561.47	3/4	2,903.96	3/4	3,246.37
8	185.67	8	528.15	8	867.69	8	1,198.65	8	1,541.14	8	1,883.62	8	2,226.11	8	2,568.60	8	2,911.09	8	3,253.50
1/4	192.81	1/4	535.28	1/4	874.52	1/4	1,205.78	1/4	1,548.27	1/4	1,890.76	1/4	2,233.25	1/4	2,575.74	1/4	2,918.23	1/4	3,260.63
1/2	199.94	1/2	542.42	1/2	881.34	1/2	1,212.92	1/2	1,555.41	1/2	1,897.89	1/2	2,240.38	1/2	2,582.87	1/2	2,925.36	1/2	3,267.77
3/4	207.08	3/4	549.55	3/4	888.17	3/4	1,220.05	3/4	1,562.54	3/4	1,905.03	3/4	2,247.52	3/4	2,590.01	3/4	2,932.50	3/4	3,274.90
9	214.21	9	556.69	9	895.00	9	1,227.19	9	1,569.68	9	1,912.17	9	2,254.66	9	2,597.14	9	2,939.63	9	3,282.03
1/4	221.35	1/4	563.82	1/4	901.83	1/4	1,234.32	1/4	1,576.81	1/4	1,919.30	1/4	2,261.79	1/4	2,604.28	1/4	2,946.77	1/4	3,289.17
1/2	228.48	1/2	570.96	1/2	908.66	1/2	1,241.46	1/2	1,583.95	1/2	1,926.44	1/2	2,268.93	1/2	2,611.42	1/2	2,953.90	1/2	3,296.30
3/4	235.62	3/4	578.09	3/4	915.48	3/4	1,248.59	3/4	1,591.08	3/4	1,933.57	3/4	2,276.06	3/4	2,618.55	3/4	2,961.04	3/4	3,303.43
10	242.75	10	585.23	10	922.31	10	1,255.73	10	1,598.22	10	1,940.71	10	2,283.20	10	2,625.69	10	2,968.18	10	3,310.56
1/4	249.89	1/4	592.36	1/4	929.14	1/4	1,262.86	1/4	1,605.35	1/4	1,947.84	1/4	2,290.33	1/4	2,632.82	1/4	2,975.31	1/4	3,317.70
1/2	257.02	1/2	599.50	1/2	935.97	1/2	1,270.00	1/2	1,612.49	1/2	1,954.98	1/2	2,297.47	1/2	2,639.96	1/2	2,982.45	1/2	3,324.83
3/4	264.16	3/4	606.63	3/4	942.80	3/4	1,277.13	3/4	1,619.62	3/4	1,962.11	3/4	2,304.60	3/4	2,647.09	3/4	2,989.58	3/4	3,331.96
11	271.29	11	613.77	11	949.63	11	1,284.27	11	1,626.76	11	1,969.25	11	2,311.74	11	2,654.23	11	2,996.72	11	3,339.10
1/4	278.43	1/4	620.90	1/4	956.45	1/4	1,291.40	1/4	1,633.89	1/4	1,976.38	1/4	2,318.87	1/4	2,661.36	1/4	3,003.85	1/4	3,346.23
1/2	285.56	1/2	628.04	1/2	963.28	1/2	1,298.54	1/2	1,641.03	1/2	1,983.52	1/2	2,326.01	1/2	2,668.50	1/2	3,010.99	1/2	3,353.36
3/4	292.70	3/4	635.17	3/4	970.11	3/4	1,305.67	3/4	1,648.16	3/4	1,990.65	3/4	2,333.14	3/4	2,675.63	3/4	3,018.12	3/4	3,360.50

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**2 PORT**  
**INNAGE TABLE**  
**10" HATCH**  
**GAUGE HEIGHT 18'-02 1/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,367.63	0	3,710.02	0	4,052.41	0	4,394.35	0	4,735.18	0	5,055.88	0		0		0		0	
1/4	3,374.76	1/4	3,717.15	1/4	4,059.54	1/4	4,401.45	1/4	4,742.28	1/4	5,059.07	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,381.90	1/2	3,724.28	1/2	4,066.67	1/2	4,408.55	1/2	4,749.38	1/2	5,062.26	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,389.03	3/4	3,731.42	3/4	4,073.81	3/4	4,415.65	3/4	4,756.48	3/4	5,065.45	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,396.16	1	3,738.55	1	4,080.94	1	4,422.75	1	4,763.58	1	5,068.64	1	1	1	1	1	1	1	1
1/4	3,403.29	1/4	3,745.68	1/4	4,088.07	1/4	4,429.85	1/4	4,770.68	1/4	5,070.65	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,410.43	1/2	3,752.82	1/2	4,095.21	1/2	4,436.95	1/2	4,777.78	1/2	5,072.65	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,417.56	3/4	3,759.95	3/4	4,102.34	3/4	4,444.05	3/4	4,784.88	3/4	5,074.65	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,424.69	2	3,767.08	2	4,109.47	2	4,451.15	2	4,791.98	2	5,076.65	2	2	2	2	2	2	2	2
1/4	3,431.83	1/4	3,774.22	1/4	4,116.60	1/4	4,458.25	1/4	4,799.08	1/4	5,077.58	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,438.96	1/2	3,781.35	1/2	4,123.74	1/2	4,465.35	1/2	4,806.18	1/2	5,078.50	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,446.09	3/4	3,788.48	3/4	4,130.87	3/4	4,472.45	3/4	4,813.28	3/4	5,079.43	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,453.23	3	3,795.62	3	4,138.00	3	4,479.55	3	4,820.38	3	5,080.36	3	3	3	3	3	3	3	3
1/4	3,460.36	1/4	3,802.75	1/4	4,145.14	1/4	4,486.65	1/4	4,827.48	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,467.49	1/2	3,809.88	1/2	4,152.27	1/2	4,493.75	1/2	4,834.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,474.63	3/4	3,817.01	3/4	4,159.40	3/4	4,500.86	3/4	4,841.68	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,481.76	4	3,824.15	4	4,166.54	4	4,507.96	4	4,848.78	4	4	4	4	4	4	4	4	4	4
1/4	3,488.89	1/4	3,831.28	1/4	4,173.67	1/4	4,515.06	1/4	4,855.86	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,496.03	1/2	3,838.41	1/2	4,180.80	1/2	4,522.16	1/2	4,862.94	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,503.16	3/4	3,845.55	3/4	4,187.94	3/4	4,529.26	3/4	4,870.02	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,510.29	5	3,852.68	5	4,195.07	5	4,536.36	5	4,877.10	5	5	5	5	5	5	5	5	5	5
1/4	3,517.42	1/4	3,859.81	1/4	4,202.20	1/4	4,543.46	1/4	4,884.15	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,524.56	1/2	3,866.95	1/2	4,209.34	1/2	4,550.56	1/2	4,891.21	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,531.69	3/4	3,874.08	3/4	4,216.47	3/4	4,557.66	3/4	4,898.26	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,538.82	6	3,881.21	6	4,223.60	6	4,564.76	6	4,905.32	6	6	6	6	6	6	6	6	6	6
1/4	3,545.96	1/4	3,888.35	1/4	4,230.73	1/4	4,571.86	1/4	4,912.37	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,553.09	1/2	3,895.48	1/2	4,237.87	1/2	4,578.96	1/2	4,919.43	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,560.22	3/4	3,902.61	3/4	4,245.00	3/4	4,586.06	3/4	4,926.48	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,567.36	7	3,909.75	7	4,252.13	7	4,593.16	7	4,933.54	7	7	7	7	7	7	7	7	7	7
1/4	3,574.49	1/4	3,916.88	1/4	4,259.27	1/4	4,600.26	1/4	4,940.58	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,581.62	1/2	3,924.01	1/2	4,266.40	1/2	4,607.36	1/2	4,947.63	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,588.76	3/4	3,931.14	3/4	4,273.53	3/4	4,614.46	3/4	4,954.68	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,595.89	8	3,938.28	8	4,280.67	8	4,621.57	8	4,961.72	8	8	8	8	8	8	8	8	8	8
1/4	3,603.02	1/4	3,945.41	1/4	4,287.78	1/4	4,628.67	1/4	4,968.74	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,610.15	1/2	3,952.54	1/2	4,294.90	1/2	4,635.77	1/2	4,975.75	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,617.29	3/4	3,959.68	3/4	4,302.02	3/4	4,642.87	3/4	4,982.77	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,624.42	9	3,966.81	9	4,309.14	9	4,649.97	9	4,989.78	9	9	9	9	9	9	9	9	9	9
1/4	3,631.55	1/4	3,973.94	1/4	4,316.24	1/4	4,657.07	1/4	4,996.36	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,638.69	1/2	3,981.08	1/2	4,323.34	1/2	4,664.17	1/2	5,002.93	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,645.82	3/4	3,988.21	3/4	4,330.44	3/4	4,671.27	3/4	5,009.51	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,652.95	10	3,995.34	10	4,337.54	10	4,678.37	10	5,016.08	10	10	10	10	10	10	10	10	10	10
1/4	3,660.09	1/4	4,002.48	1/4	4,344.64	1/4	4,685.47	1/4	5,021.65	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,667.22	1/2	4,009.61	1/2	4,351.74	1/2	4,692.57	1/2	5,027.22	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,674.35	3/4	4,016.74	3/4	4,358.84	3/4	4,699.67	3/4	5,032.79	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,681.49	11	4,023.87	11	4,365.94	11	4,706.77	11	5,038.36	11	11	11	11	11	11	11	11	11	11
1/4	3,688.62	1/4	4,031.01	1/4	4,373.04	1/4	4,713.87	1/4	5,042.74	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,695.75	1/2	4,038.14	1/2	4,380.15	1/2	4,720.97	1/2	5,047.12	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,702.89	3/4	4,045.27	3/4	4,387.25	3/4	4,728.07	3/4	5,051.50	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020





# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

**2 STBD**  
**INNAGE TABLE**

**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.16	0	301.51	0	645.91	0	990.03	0	1,334.22	0	1,678.63	0	2,023.04	0	2,367.45	0	2,711.86	0	3,056.27
1/4	3.96	1/4	308.69	1/4	653.08	1/4	997.20	1/4	1,341.40	1/4	1,685.81	1/4	2,030.22	1/4	2,374.63	1/4	2,719.04	1/4	3,063.44
1/2	5.75	1/2	315.86	1/2	660.26	1/2	1,004.36	1/2	1,348.57	1/2	1,692.98	1/2	2,037.39	1/2	2,381.80	1/2	2,726.21	1/2	3,070.62
3/4	7.54	3/4	323.04	3/4	667.43	3/4	1,011.52	3/4	1,355.75	3/4	1,700.16	3/4	2,044.57	3/4	2,388.98	3/4	2,733.39	3/4	3,077.79
1	9.34	1	330.21	1	674.61	1	1,018.68	1	1,362.92	1	1,707.33	1	2,051.74	1	2,396.15	1	2,740.56	1	3,084.96
1/4	12.92	1/4	337.39	1/4	681.78	1/4	1,025.84	1/4	1,370.10	1/4	1,714.51	1/4	2,058.92	1/4	2,403.33	1/4	2,747.74	1/4	3,092.14
1/2	16.51	1/2	344.56	1/2	688.96	1/2	1,033.00	1/2	1,377.27	1/2	1,721.68	1/2	2,066.09	1/2	2,410.50	1/2	2,754.91	1/2	3,099.31
3/4	20.10	3/4	351.74	3/4	696.13	3/4	1,040.16	3/4	1,384.45	3/4	1,728.86	3/4	2,073.27	3/4	2,417.68	3/4	2,762.09	3/4	3,106.48
2	23.69	2	358.91	2	703.31	2	1,047.32	2	1,391.63	2	1,736.03	2	2,080.44	2	2,424.85	2	2,769.26	2	3,113.65
1/4	29.07	1/4	366.09	1/4	710.48	1/4	1,054.48	1/4	1,398.80	1/4	1,743.21	1/4	2,087.62	1/4	2,432.03	1/4	2,776.44	1/4	3,120.83
1/2	34.45	1/2	373.26	1/2	717.66	1/2	1,061.64	1/2	1,405.98	1/2	1,750.39	1/2	2,094.79	1/2	2,439.20	1/2	2,783.61	1/2	3,128.00
3/4	39.83	3/4	380.44	3/4	724.83	3/4	1,068.81	3/4	1,413.15	3/4	1,757.56	3/4	2,101.97	3/4	2,446.38	3/4	2,790.79	3/4	3,135.17
3	45.21	3	387.61	3	732.01	3	1,075.97	3	1,420.33	3	1,764.74	3	2,109.15	3	2,453.55	3	2,797.96	3	3,142.35
1/4	51.91	1/4	394.79	1/4	739.18	1/4	1,083.13	1/4	1,427.50	1/4	1,771.91	1/4	2,116.32	1/4	2,460.73	1/4	2,805.14	1/4	3,149.52
1/2	58.62	1/2	401.96	1/2	746.36	1/2	1,090.30	1/2	1,434.68	1/2	1,779.09	1/2	2,123.50	1/2	2,467.91	1/2	2,812.31	1/2	3,156.69
3/4	65.33	3/4	409.14	3/4	753.53	3/4	1,097.46	3/4	1,441.85	3/4	1,786.26	3/4	2,130.67	3/4	2,475.08	3/4	2,819.49	3/4	3,163.87
4	72.04	4	416.31	4	760.71	4	1,104.63	4	1,449.03	4	1,793.44	4	2,137.85	4	2,482.26	4	2,826.67	4	3,171.04
1/4	79.19	1/4	423.49	1/4	767.88	1/4	1,111.80	1/4	1,456.20	1/4	1,800.61	1/4	2,145.02	1/4	2,489.43	1/4	2,833.84	1/4	3,178.21
1/2	86.34	1/2	430.66	1/2	775.06	1/2	1,118.97	1/2	1,463.38	1/2	1,807.79	1/2	2,152.20	1/2	2,496.61	1/2	2,841.02	1/2	3,185.39
3/4	93.49	3/4	437.84	3/4	782.23	3/4	1,126.15	3/4	1,470.55	3/4	1,814.96	3/4	2,159.37	3/4	2,503.78	3/4	2,848.19	3/4	3,192.56
5	100.64	5	445.01	5	789.41	5	1,133.32	5	1,477.73	5	1,822.14	5	2,166.55	5	2,510.96	5	2,855.37	5	3,199.73
1/4	107.81	1/4	452.19	1/4	796.58	1/4	1,140.49	1/4	1,484.90	1/4	1,829.31	1/4	2,173.72	1/4	2,518.13	1/4	2,862.54	1/4	3,206.91
1/2	114.98	1/2	459.36	1/2	803.76	1/2	1,147.67	1/2	1,492.08	1/2	1,836.49	1/2	2,180.90	1/2	2,525.31	1/2	2,869.72	1/2	3,214.08
3/4	122.15	3/4	466.54	3/4	810.93	3/4	1,154.84	3/4	1,499.25	3/4	1,843.66	3/4	2,188.07	3/4	2,532.48	3/4	2,876.89	3/4	3,221.25
6	129.32	6	473.71	6	818.11	6	1,162.02	6	1,506.43	6	1,850.84	6	2,195.25	6	2,539.66	6	2,884.07	6	3,228.43
1/4	136.49	1/4	480.89	1/4	825.28	1/4	1,169.19	1/4	1,513.60	1/4	1,858.01	1/4	2,202.42	1/4	2,546.83	1/4	2,891.24	1/4	3,235.60
1/2	143.67	1/2	488.06	1/2	832.45	1/2	1,176.37	1/2	1,520.78	1/2	1,865.19	1/2	2,209.60	1/2	2,554.01	1/2	2,898.42	1/2	3,242.77
3/4	150.84	3/4	495.24	3/4	839.63	3/4	1,183.54	3/4	1,527.95	3/4	1,872.36	3/4	2,216.77	3/4	2,561.18	3/4	2,905.59	3/4	3,249.95
7	158.02	7	502.41	7	846.80	7	1,190.72	7	1,535.13	7	1,879.54	7	2,223.95	7	2,568.36	7	2,912.77	7	3,257.12
1/4	165.19	1/4	509.59	1/4	853.96	1/4	1,197.89	1/4	1,542.30	1/4	1,886.71	1/4	2,231.12	1/4	2,575.53	1/4	2,919.94	1/4	3,264.29
1/2	172.37	1/2	516.76	1/2	861.13	1/2	1,205.07	1/2	1,549.48	1/2	1,893.89	1/2	2,238.30	1/2	2,582.71	1/2	2,927.12	1/2	3,271.47
3/4	179.54	3/4	523.94	3/4	868.29	3/4	1,212.25	3/4	1,556.65	3/4	1,901.06	3/4	2,245.47	3/4	2,589.88	3/4	2,934.29	3/4	3,278.64
8	186.72	8	531.11	8	875.46	8	1,219.42	8	1,563.83	8	1,908.24	8	2,252.65	8	2,597.06	8	2,941.47	8	3,285.81
1/4	193.89	1/4	538.29	1/4	882.62	1/4	1,226.60	1/4	1,571.01	1/4	1,915.41	1/4	2,259.82	1/4	2,604.23	1/4	2,948.64	1/4	3,292.98
1/2	201.07	1/2	545.46	1/2	889.78	1/2	1,233.77	1/2	1,578.18	1/2	1,922.59	1/2	2,267.00	1/2	2,611.41	1/2	2,955.82	1/2	3,300.16
3/4	208.24	3/4	552.64	3/4	896.94	3/4	1,240.95	3/4	1,585.36	3/4	1,929.77	3/4	2,274.17	3/4	2,618.58	3/4	2,962.99	3/4	3,307.33
9	215.42	9	559.81	9	904.10	9	1,248.12	9	1,592.53	9	1,936.94	9	2,281.35	9	2,625.76	9	2,970.17	9	3,314.50
1/4	222.59	1/4	566.99	1/4	911.26	1/4	1,255.30	1/4	1,599.71	1/4	1,944.12	1/4	2,288.53	1/4	2,632.93	1/4	2,977.34	1/4	3,321.68
1/2	229.77	1/2	574.16	1/2	918.42	1/2	1,262.47	1/2	1,606.88	1/2	1,951.29	1/2	2,295.70	1/2	2,640.11	1/2	2,984.52	1/2	3,328.85
3/4	236.94	3/4	581.34	3/4	925.59	3/4	1,269.65	3/4	1,614.06	3/4	1,958.47	3/4	2,302.88	3/4	2,647.29	3/4	2,991.69	3/4	3,336.02
10	244.12	10	588.51	10	932.75	10	1,276.82	10	1,621.23	10	1,965.64	10	2,310.05	10	2,654.46	10	2,998.87	10	3,343.20
1/4	251.29	1/4	595.69	1/4	939.91	1/4	1,284.00	1/4	1,628.41	1/4	1,972.82	1/4	2,317.23	1/4	2,661.64	1/4	3,006.05	1/4	3,350.37
1/2	258.47	1/2	602.86	1/2	947.07	1/2	1,291.17	1/2	1,635.58	1/2	1,979.99	1/2	2,324.40	1/2	2,668.81	1/2	3,013.22	1/2	3,357.54
3/4	265.64	3/4	610.04	3/4	954.23	3/4	1,298.35	3/4	1,642.76	3/4	1,987.17	3/4	2,331.58	3/4	2,675.99	3/4	3,020.40	3/4	3,364.72
11	272.81	11	617.21	11	961.39	11	1,305.52	11	1,649.93	11	1,994.34	11	2,338.75	11	2,683.16	11	3,027.57	11	3,371.89
1/4	279.99	1/4	624.38	1/4	968.55	1/4	1,312.70	1/4	1,657.11	1/4	2,001.52	1/4	2,345.93	1/4	2,690.34	1/4	3,034.75	1/4	3,379.06
1/2	287.16	1/2	631.56	1/2	975.71	1/2	1,319.87	1/2	1,664.28	1/2	2,008.69	1/2	2,353.10	1/2	2,697.51	1/2	3,041.92	1/2	3,386.24
3/4	294.34	3/4	638.73	3/4	982.87	3/4	1,327.05	3/4	1,671.46	3/4	2,015.87	3/4	2,360.28	3/4	2,704.69	3/4	3,049.10	3/4	3,393.41

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**2 STBD**  
**INNAGE TABLE**  
**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,400.58	0	3,744.91	0	4,089.31	0	4,433.26	0	4,776.10	0	5,098.70	0		0		0		0	
1/4	3,407.76	1/4	3,752.08	1/4	4,096.49	1/4	4,440.41	1/4	4,783.24	1/4	5,101.91	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,414.93	1/2	3,759.26	1/2	4,103.67	1/2	4,447.55	1/2	4,790.38	1/2	5,105.12	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,422.10	3/4	3,766.43	3/4	4,110.84	3/4	4,454.69	3/4	4,797.53	3/4	5,108.33	3/4	3/4	3/4	3/4		3/4		3/4
1	3,429.28	1	3,773.61	1	4,118.02	1	4,461.83	1	4,804.67	1	5,111.55	1	1	1	1		1		1
1/4	3,436.45	1/4	3,780.78	1/4	4,125.19	1/4	4,468.98	1/4	4,811.81	1/4	5,113.56	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,443.62	1/2	3,787.96	1/2	4,132.37	1/2	4,476.12	1/2	4,818.95	1/2	5,115.58	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,450.80	3/4	3,795.13	3/4	4,139.54	3/4	4,483.26	3/4	4,826.10	3/4	5,117.59	3/4	3/4	3/4	3/4		3/4		3/4
2	3,457.97	2	3,802.31	2	4,146.72	2	4,490.40	2	4,833.24	2	5,119.61	2	2	2	2		2		2
1/4	3,465.14	1/4	3,809.48	1/4	4,153.89	1/4	4,497.54	1/4	4,840.38	1/4	5,120.54	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,472.31	1/2	3,816.66	1/2	4,161.07	1/2	4,504.69	1/2	4,847.52	1/2	5,121.47	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,479.49	3/4	3,823.83	3/4	4,168.24	3/4	4,511.83	3/4	4,854.66	3/4	5,122.40	3/4	3/4	3/4	3/4		3/4		3/4
3	3,486.66	3	3,831.01	3	4,175.42	3	4,518.97	3	4,861.81	3	5,123.34	3	3	3	3		3		3
1/4	3,493.83	1/4	3,838.18	1/4	4,182.59	1/4	4,526.11	1/4	4,868.95	1/4		1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,501.01	1/2	3,845.36	1/2	4,189.77	1/2	4,533.26	1/2	4,876.09	1/2		1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,508.18	3/4	3,852.53	3/4	4,196.94	3/4	4,540.40	3/4	4,883.23	3/4		3/4	3/4	3/4	3/4		3/4		3/4
4	3,515.35	4	3,859.71	4	4,204.12	4	4,547.54	4	4,890.38	4	4	4	4	4	4		4		4
1/4	3,522.53	1/4	3,866.88	1/4	4,211.29	1/4	4,554.68	1/4	4,897.50	1/4	1/4	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,529.70	1/2	3,874.06	1/2	4,218.47	1/2	4,561.83	1/2	4,904.62	1/2	1/2	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,536.87	3/4	3,881.23	3/4	4,225.64	3/4	4,568.97	3/4	4,911.74	3/4	3/4	3/4	3/4	3/4	3/4		3/4		3/4
5	3,544.05	5	3,888.41	5	4,232.82	5	4,576.11	5	4,918.86	5	5	5	5	5	5		5		5
1/4	3,551.22	1/4	3,895.58	1/4	4,239.99	1/4	4,583.25	1/4	4,925.95	1/4	1/4	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,558.39	1/2	3,902.76	1/2	4,247.17	1/2	4,590.40	1/2	4,933.05	1/2	1/2	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,565.57	3/4	3,909.93	3/4	4,254.34	3/4	4,597.54	3/4	4,940.15	3/4	3/4	3/4	3/4	3/4	3/4		3/4		3/4
6	3,572.74	6	3,917.11	6	4,261.52	6	4,604.68	6	4,947.24	6	6	6	6	6	6		6		6
1/4	3,579.91	1/4	3,924.29	1/4	4,268.69	1/4	4,611.82	1/4	4,954.34	1/4	1/4	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,587.09	1/2	3,931.46	1/2	4,275.87	1/2	4,618.97	1/2	4,961.44	1/2	1/2	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,594.26	3/4	3,938.64	3/4	4,283.05	3/4	4,626.11	3/4	4,968.53	3/4	3/4	3/4	3/4	3/4	3/4		3/4		3/4
7	3,601.43	7	3,945.81	7	4,290.22	7	4,633.25	7	4,975.63	7	7	7	7	7	7		7		7
1/4	3,608.61	1/4	3,952.99	1/4	4,297.40	1/4	4,640.39	1/4	4,982.72	1/4	1/4	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,615.78	1/2	3,960.16	1/2	4,304.57	1/2	4,647.54	1/2	4,989.81	1/2	1/2	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,622.95	3/4	3,967.34	3/4	4,311.75	3/4	4,654.68	3/4	4,996.90	3/4	3/4	3/4	3/4	3/4	3/4		3/4		3/4
8	3,630.13	8	3,974.51	8	4,318.92	8	4,661.82	8	5,003.99	8	8	8	8	8	8		8		8
1/4	3,637.30	1/4	3,981.69	1/4	4,326.08	1/4	4,668.96	1/4	5,011.04	1/4	1/4	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,644.47	1/2	3,988.86	1/2	4,333.24	1/2	4,676.10	1/2	5,018.10	1/2	1/2	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,651.64	3/4	3,996.04	3/4	4,340.40	3/4	4,683.25	3/4	5,025.15	3/4	3/4	3/4	3/4	3/4	3/4		3/4		3/4
9	3,658.82	9	4,003.21	9	4,347.55	9	4,690.39	9	5,032.21	9	9	9	9	9	9		9		9
1/4	3,665.99	1/4	4,010.39	1/4	4,354.70	1/4	4,697.53	1/4	5,038.82	1/4	1/4	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,673.16	1/2	4,017.56	1/2	4,361.84	1/2	4,704.67	1/2	5,045.44	1/2	1/2	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,680.34	3/4	4,024.74	3/4	4,368.98	3/4	4,711.82	3/4	5,052.05	3/4	3/4	3/4	3/4	3/4	3/4		3/4		3/4
10	3,687.51	10	4,031.91	10	4,376.12	10	4,718.96	10	5,058.67	10	10	10	10	10	10		10		10
1/4	3,694.68	1/4	4,039.09	1/4	4,383.27	1/4	4,726.10	1/4	5,064.27	1/4	1/4	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,701.86	1/2	4,046.26	1/2	4,390.41	1/2	4,733.24	1/2	5,069.87	1/2	1/2	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,709.03	3/4	4,053.44	3/4	4,397.55	3/4	4,740.39	3/4	5,075.47	3/4	3/4	3/4	3/4	3/4	3/4		3/4		3/4
11	3,716.20	11	4,060.61	11	4,404.69	11	4,747.53	11	5,081.08	11	11	11	11	11	11		11		11
1/4	3,723.38	1/4	4,067.79	1/4	4,411.84	1/4	4,754.67	1/4	5,085.48	1/4	1/4	1/4	1/4	1/4	1/4		1/4		1/4
1/2	3,730.55	1/2	4,074.96	1/2	4,418.98	1/2	4,761.81	1/2	5,089.89	1/2	1/2	1/2	1/2	1/2	1/2		1/2		1/2
3/4	3,737.73	3/4	4,082.14	3/4	4,426.12	3/4	4,768.96	3/4	5,094.30	3/4	3/4	3/4	3/4	3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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Pearland, Texas 77588  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020





# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

**3 PORT**  
**INNAGE TABLE**

**10" HATCH**  
**GAUGE HEIGHT 18'-02 1/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	299.43	0	641.01	0	974.74	0	1,309.69	0	1,651.09	0	1,992.49	0	2,333.89	0	2,675.26	0	3,016.78
1/4	3.93	1/4	306.56	1/4	648.13	1/4	981.55	1/4	1,316.80	1/4	1,658.20	1/4	1,999.60	1/4	2,341.00	1/4	2,682.37	1/4	3,023.89
1/2	5.71	1/2	313.68	1/2	655.24	1/2	988.35	1/2	1,323.91	1/2	1,665.31	1/2	2,006.71	1/2	2,348.11	1/2	2,689.48	1/2	3,031.01
3/4	7.49	3/4	320.81	3/4	662.35	3/4	995.15	3/4	1,331.02	3/4	1,672.42	3/4	2,013.82	3/4	2,355.22	3/4	2,696.59	3/4	3,038.13
1	9.27	1	327.94	1	669.47	1	1,001.96	1	1,338.14	1	1,679.54	1	2,020.94	1	2,362.34	1	2,703.70	1	3,045.24
1/4	12.84	1/4	335.06	1/4	676.58	1/4	1,008.76	1/4	1,345.25	1/4	1,686.65	1/4	2,028.05	1/4	2,369.45	1/4	2,710.82	1/4	3,052.35
1/2	16.40	1/2	342.19	1/2	683.70	1/2	1,015.56	1/2	1,352.36	1/2	1,693.76	1/2	2,035.16	1/2	2,376.56	1/2	2,717.93	1/2	3,059.46
3/4	19.96	3/4	349.31	3/4	690.81	3/4	1,022.37	3/4	1,359.47	3/4	1,700.87	3/4	2,042.27	3/4	2,383.67	3/4	2,725.04	3/4	3,066.56
2	23.52	2	356.44	2	697.92	2	1,029.17	2	1,366.59	2	1,707.99	2	2,049.39	2	2,390.79	2	2,732.15	2	3,073.67
1/4	28.87	1/4	363.56	1/4	705.04	1/4	1,035.97	1/4	1,373.70	1/4	1,715.10	1/4	2,056.50	1/4	2,397.90	1/4	2,739.26	1/4	3,080.78
1/2	34.21	1/2	370.68	1/2	712.15	1/2	1,042.78	1/2	1,380.81	1/2	1,722.21	1/2	2,063.61	1/2	2,405.01	1/2	2,746.37	1/2	3,087.89
3/4	39.55	3/4	377.80	3/4	719.26	3/4	1,049.58	3/4	1,387.92	3/4	1,729.32	3/4	2,070.72	3/4	2,412.12	3/4	2,753.49	3/4	3,094.99
3	44.90	3	384.92	3	726.38	3	1,056.38	3	1,395.04	3	1,736.44	3	2,077.84	3	2,419.24	3	2,760.60	3	3,102.10
1/4	51.56	1/4	392.03	1/4	733.49	1/4	1,063.19	1/4	1,402.15	1/4	1,743.55	1/4	2,084.95	1/4	2,426.35	1/4	2,767.71	1/4	3,109.20
1/2	58.22	1/2	399.14	1/2	740.61	1/2	1,070.00	1/2	1,409.26	1/2	1,750.66	1/2	2,092.06	1/2	2,433.46	1/2	2,774.82	1/2	3,116.30
3/4	64.88	3/4	406.26	3/4	747.72	3/4	1,076.81	3/4	1,416.37	3/4	1,757.77	3/4	2,099.17	3/4	2,440.57	3/4	2,781.93	3/4	3,123.40
4	71.54	4	413.37	4	754.83	4	1,083.61	4	1,423.49	4	1,764.89	4	2,106.29	4	2,447.69	4	2,789.04	4	3,130.50
1/4	78.64	1/4	420.48	1/4	761.95	1/4	1,090.46	1/4	1,430.60	1/4	1,772.00	1/4	2,113.40	1/4	2,454.80	1/4	2,796.15	1/4	3,137.59
1/2	85.75	1/2	427.60	1/2	769.06	1/2	1,097.31	1/2	1,437.71	1/2	1,779.11	1/2	2,120.51	1/2	2,461.91	1/2	2,803.27	1/2	3,144.68
3/4	92.85	3/4	434.71	3/4	776.17	3/4	1,104.15	3/4	1,444.82	3/4	1,786.22	3/4	2,127.62	3/4	2,469.02	3/4	2,810.38	3/4	3,151.77
5	99.95	5	441.83	5	783.29	5	1,111.00	5	1,451.94	5	1,793.34	5	2,134.74	5	2,476.14	5	2,817.49	5	3,158.86
1/4	107.07	1/4	448.94	1/4	790.29	1/4	1,117.99	1/4	1,459.05	1/4	1,800.45	1/4	2,141.85	1/4	2,483.25	1/4	2,824.60	1/4	3,165.95
1/2	114.19	1/2	456.05	1/2	797.28	1/2	1,124.99	1/2	1,466.16	1/2	1,807.56	1/2	2,148.96	1/2	2,490.36	1/2	2,831.71	1/2	3,173.04
3/4	121.31	3/4	463.17	3/4	804.28	3/4	1,131.99	3/4	1,473.27	3/4	1,814.67	3/4	2,156.07	3/4	2,497.47	3/4	2,838.82	3/4	3,180.13
6	128.43	6	470.28	6	811.28	6	1,138.99	6	1,480.39	6	1,821.79	6	2,163.19	6	2,504.58	6	2,845.94	6	3,187.22
1/4	135.55	1/4	477.39	1/4	818.13	1/4	1,146.10	1/4	1,487.50	1/4	1,828.90	1/4	2,170.30	1/4	2,511.69	1/4	2,853.05	1/4	3,194.31
1/2	142.68	1/2	484.51	1/2	824.97	1/2	1,153.21	1/2	1,494.61	1/2	1,836.01	1/2	2,177.41	1/2	2,518.80	1/2	2,860.16	1/2	3,201.40
3/4	149.80	3/4	491.62	3/4	831.82	3/4	1,160.32	3/4	1,501.72	3/4	1,843.12	3/4	2,184.52	3/4	2,525.91	3/4	2,867.27	3/4	3,208.49
7	156.93	7	498.74	7	838.67	7	1,167.44	7	1,508.84	7	1,850.24	7	2,191.64	7	2,533.03	7	2,874.38	7	3,215.58
1/4	164.05	1/4	505.85	1/4	845.47	1/4	1,174.55	1/4	1,515.95	1/4	1,857.35	1/4	2,198.75	1/4	2,540.14	1/4	2,881.49	1/4	3,222.67
1/2	171.18	1/2	512.96	1/2	852.28	1/2	1,181.66	1/2	1,523.06	1/2	1,864.46	1/2	2,205.86	1/2	2,547.25	1/2	2,888.61	1/2	3,229.76
3/4	178.30	3/4	520.08	3/4	859.09	3/4	1,188.77	3/4	1,530.17	3/4	1,871.57	3/4	2,212.97	3/4	2,554.36	3/4	2,895.72	3/4	3,236.85
8	185.43	8	527.19	8	865.89	8	1,195.89	8	1,537.29	8	1,878.69	8	2,220.09	8	2,561.47	8	2,902.83	8	3,243.94
1/4	192.55	1/4	534.31	1/4	872.70	1/4	1,203.00	1/4	1,544.40	1/4	1,885.80	1/4	2,227.20	1/4	2,568.58	1/4	2,909.95	1/4	3,251.03
1/2	199.68	1/2	541.42	1/2	879.50	1/2	1,210.11	1/2	1,551.51	1/2	1,892.91	1/2	2,234.31	1/2	2,575.70	1/2	2,917.06	1/2	3,258.12
3/4	206.80	3/4	548.53	3/4	886.30	3/4	1,217.22	3/4	1,558.62	3/4	1,900.02	3/4	2,241.42	3/4	2,582.81	3/4	2,924.18	3/4	3,265.21
9	213.93	9	555.65	9	893.11	9	1,224.34	9	1,565.74	9	1,907.14	9	2,248.54	9	2,589.92	9	2,931.30	9	3,272.30
1/4	221.05	1/4	562.76	1/4	899.91	1/4	1,231.45	1/4	1,572.85	1/4	1,914.25	1/4	2,255.65	1/4	2,597.03	1/4	2,938.42	1/4	3,279.40
1/2	228.18	1/2	569.87	1/2	906.71	1/2	1,238.56	1/2	1,579.96	1/2	1,921.36	1/2	2,262.76	1/2	2,604.14	1/2	2,945.55	1/2	3,286.49
3/4	235.31	3/4	576.99	3/4	913.52	3/4	1,245.67	3/4	1,587.07	3/4	1,928.47	3/4	2,269.87	3/4	2,611.25	3/4	2,952.67	3/4	3,293.58
10	242.43	10	584.10	10	920.32	10	1,252.79	10	1,594.19	10	1,935.59	10	2,276.99	10	2,618.36	10	2,959.79	10	3,300.67
1/4	249.56	1/4	591.22	1/4	927.12	1/4	1,259.90	1/4	1,601.30	1/4	1,942.70	1/4	2,284.10	1/4	2,625.48	1/4	2,966.92	1/4	3,307.76
1/2	256.68	1/2	598.33	1/2	933.92	1/2	1,267.01	1/2	1,608.41	1/2	1,949.81	1/2	2,291.21	1/2	2,632.59	1/2	2,974.04	1/2	3,314.85
3/4	263.81	3/4	605.44	3/4	940.73	3/4	1,274.12	3/4	1,615.52	3/4	1,956.92	3/4	2,298.32	3/4	2,639.70	3/4	2,981.16	3/4	3,321.95
11	270.93	11	612.56	11	947.53	11	1,281.24	11	1,622.64	11	1,964.04	11	2,305.44	11	2,646.81	11	2,988.29	11	3,329.04
1/4	278.06	1/4	619.67	1/4	954.33	1/4	1,288.35	1/4	1,629.75	1/4	1,971.15	1/4	2,312.55	1/4	2,653.92	1/4	2,995.41	1/4	3,336.15
1/2	285.18	1/2	626.78	1/2	961.14	1/2	1,295.46	1/2	1,636.86	1/2	1,978.26	1/2	2,319.66	1/2	2,661.03	1/2	3,002.53	1/2	3,343.26
3/4	292.31	3/4	633.90	3/4	967.94	3/4	1,302.57	3/4	1,643.97	3/4	1,985.37	3/4	2,326.77	3/4	2,668.15	3/4	3,009.66	3/4	3,350.37

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**3 PORT**  
**INNAGE TABLE**  
**10" HATCH**  
**GAUGE HEIGHT 18'-02 1/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,351.89	0	3,560.73	0	3,770.34	0	3,979.68	0	4,188.37	0	4,378.79	0		0		0		0	
1/4	3,356.22	1/4	3,565.09	1/4	3,774.70	1/4	3,984.03	1/4	4,192.72	1/4	4,380.50	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,360.55	1/2	3,569.46	1/2	3,779.07	1/2	3,988.37	1/2	4,197.07	1/2	4,382.21	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,364.89	3/4	3,573.83	3/4	3,783.44	3/4	3,992.72	3/4	4,201.42	3/4	4,383.91	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,369.22	1	3,578.19	1	3,787.80	1	3,997.07	1	4,205.76	1	4,385.62	1	1	1	1	1	1	1	1
1/4	3,373.56	1/4	3,582.56	1/4	3,792.17	1/4	4,001.42	1/4	4,210.11	1/4	4,387.32	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,377.90	1/2	3,586.93	1/2	3,796.54	1/2	4,005.77	1/2	4,214.46	1/2	4,389.03	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,382.24	3/4	3,591.29	3/4	3,800.91	3/4	4,010.11	3/4	4,218.81	3/4	4,390.74	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,386.59	2	3,595.66	2	3,805.27	2	4,014.46	2	4,223.16	2	4,392.44	2	2	2	2	2	2	2	2
1/4	3,390.94	1/4	3,600.03	1/4	3,809.64	1/4	4,018.81	1/4	4,227.50	1/4	4,393.52	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,395.29	1/2	3,604.39	1/2	3,814.01	1/2	4,023.16	1/2	4,231.85	1/2	4,394.59	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,399.64	3/4	3,608.76	3/4	3,818.37	3/4	4,027.50	3/4	4,236.20	3/4	4,395.67	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,403.99	3	3,613.13	3	3,822.74	3	4,031.85	3	4,240.55	3	4,396.74	3	3	3	3	3	3	3	3
1/4	3,408.34	1/4	3,617.50	1/4	3,827.11	1/4	4,036.20	1/4	4,244.89	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,412.69	1/2	3,621.86	1/2	3,831.47	1/2	4,040.55	1/2	4,249.24	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,417.04	3/4	3,626.23	3/4	3,835.84	3/4	4,044.90	3/4	4,253.59	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,421.40	4	3,630.60	4	3,840.21	4	4,049.24	4	4,257.94	4		4	4	4	4	4	4	4	4
1/4	3,425.75	1/4	3,634.96	1/4	3,844.57	1/4	4,053.59	1/4	4,262.27	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,430.10	1/2	3,639.33	1/2	3,848.94	1/2	4,057.94	1/2	4,266.61	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,434.45	3/4	3,643.70	3/4	3,853.31	3/4	4,062.29	3/4	4,270.94	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,438.80	5	3,648.06	5	3,857.68	5	4,066.63	5	4,275.27	5		5	5	5	5	5	5	5	5
1/4	3,443.15	1/4	3,652.43	1/4	3,862.04	1/4	4,070.98	1/4	4,279.59	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,447.50	1/2	3,656.80	1/2	3,866.41	1/2	4,075.33	1/2	4,283.92	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,451.85	3/4	3,661.16	3/4	3,870.78	3/4	4,079.68	3/4	4,288.24	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,456.20	6	3,665.53	6	3,875.14	6	4,084.03	6	4,292.56	6		6	6	6	6	6	6	6	6
1/4	3,460.56	1/4	3,669.90	1/4	3,879.51	1/4	4,088.37	1/4	4,296.87	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,464.91	1/2	3,674.27	1/2	3,883.88	1/2	4,092.72	1/2	4,301.19	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,469.26	3/4	3,678.63	3/4	3,888.24	3/4	4,097.07	3/4	4,305.51	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,473.61	7	3,683.00	7	3,892.61	7	4,101.42	7	4,309.83	7		7	7	7	7	7	7	7	7
1/4	3,477.96	1/4	3,687.37	1/4	3,896.98	1/4	4,105.76	1/4	4,314.14	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,482.31	1/2	3,691.73	1/2	3,901.34	1/2	4,110.11	1/2	4,318.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,486.66	3/4	3,696.10	3/4	3,905.71	3/4	4,114.46	3/4	4,322.76	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,491.01	8	3,700.47	8	3,910.08	8	4,118.81	8	4,327.08	8		8	8	8	8	8	8	8	8
1/4	3,495.36	1/4	3,704.83	1/4	3,914.43	1/4	4,123.16	1/4	4,331.36	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,499.71	1/2	3,709.20	1/2	3,918.79	1/2	4,127.50	1/2	4,335.63	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,504.07	3/4	3,713.57	3/4	3,923.15	3/4	4,131.85	3/4	4,339.91	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,508.42	9	3,717.93	9	3,927.51	9	4,136.20	9	4,344.19	9		9	9	9	9	9	9	9	9
1/4	3,512.77	1/4	3,722.30	1/4	3,931.85	1/4	4,140.55	1/4	4,348.03	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,517.12	1/2	3,726.67	1/2	3,936.20	1/2	4,144.90	1/2	4,351.87	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,521.47	3/4	3,731.04	3/4	3,940.55	3/4	4,149.24	3/4	4,355.71	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,525.82	10	3,735.40	10	3,944.90	10	4,153.59	10	4,359.55	10		10	10	10	10	10	10	10	10
1/4	3,530.18	1/4	3,739.77	1/4	3,949.24	1/4	4,157.94	1/4	4,362.39	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,534.54	1/2	3,744.14	1/2	3,953.59	1/2	4,162.29	1/2	4,365.23	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,538.90	3/4	3,748.50	3/4	3,957.94	3/4	4,166.63	3/4	4,368.06	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,543.26	11	3,752.87	11	3,962.29	11	4,170.98	11	4,370.90	11		11	11	11	11	11	11	11	11
1/4	3,547.63	1/4	3,757.24	1/4	3,966.64	1/4	4,175.33	1/4	4,372.87	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,551.99	1/2	3,761.60	1/2	3,970.98	1/2	4,179.68	1/2	4,374.85	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,556.36	3/4	3,765.97	3/4	3,975.33	3/4	4,184.03	3/4	4,376.82	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020





# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

### 3 STBD

### INNAGE TABLE

### 10" HATCH

### GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	299.29	0	641.14	0	982.72	0	1,324.36	0	1,666.22	0	2,008.08	0	2,349.94	0	2,691.65	0	3,032.64
1/4	3.93	1/4	306.41	1/4	648.26	1/4	989.83	1/4	1,331.48	1/4	1,673.34	1/4	2,015.20	1/4	2,357.07	1/4	2,698.75	1/4	3,039.74
1/2	5.71	1/2	313.53	1/2	655.38	1/2	996.93	1/2	1,338.61	1/2	1,680.47	1/2	2,022.33	1/2	2,364.19	1/2	2,705.86	1/2	3,046.85
3/4	7.49	3/4	320.65	3/4	662.50	3/4	1,004.04	3/4	1,345.73	3/4	1,687.59	3/4	2,029.45	3/4	2,371.31	3/4	2,712.96	3/4	3,053.95
1	9.27	1	327.77	1	669.63	1	1,011.15	1	1,352.85	1	1,694.71	1	2,036.57	1	2,378.43	1	2,720.06	1	3,061.06
1/4	12.83	1/4	334.90	1/4	676.75	1/4	1,018.26	1/4	1,359.97	1/4	1,701.83	1/4	2,043.69	1/4	2,385.55	1/4	2,727.17	1/4	3,068.16
1/2	16.39	1/2	342.02	1/2	683.87	1/2	1,025.37	1/2	1,367.09	1/2	1,708.95	1/2	2,050.82	1/2	2,392.68	1/2	2,734.27	1/2	3,075.26
3/4	19.95	3/4	349.14	3/4	690.99	3/4	1,032.48	3/4	1,374.22	3/4	1,716.08	3/4	2,057.94	3/4	2,399.80	3/4	2,741.38	3/4	3,082.37
2	23.51	2	356.26	2	698.11	2	1,039.58	2	1,381.34	2	1,723.20	2	2,065.06	2	2,406.92	2	2,748.48	2	3,089.47
1/4	28.85	1/4	363.38	1/4	705.24	1/4	1,046.69	1/4	1,388.46	1/4	1,730.32	1/4	2,072.18	1/4	2,414.04	1/4	2,755.58	1/4	3,096.58
1/2	34.19	1/2	370.51	1/2	712.36	1/2	1,053.80	1/2	1,395.58	1/2	1,737.44	1/2	2,079.30	1/2	2,421.16	1/2	2,762.69	1/2	3,103.68
3/4	39.53	3/4	377.63	3/4	719.48	3/4	1,060.91	3/4	1,402.70	3/4	1,744.57	3/4	2,086.43	3/4	2,428.29	3/4	2,769.79	3/4	3,110.78
3	44.87	3	384.75	3	726.60	3	1,068.02	3	1,409.83	3	1,751.69	3	2,093.55	3	2,435.41	3	2,776.90	3	3,117.89
1/4	51.53	1/4	391.87	1/4	733.72	1/4	1,075.13	1/4	1,416.95	1/4	1,758.81	1/4	2,100.67	1/4	2,442.53	1/4	2,784.00	1/4	3,124.98
1/2	58.19	1/2	398.99	1/2	740.84	1/2	1,082.24	1/2	1,424.07	1/2	1,765.93	1/2	2,107.79	1/2	2,449.65	1/2	2,791.10	1/2	3,132.08
3/4	64.85	3/4	406.12	3/4	747.97	3/4	1,089.35	3/4	1,431.19	3/4	1,773.05	3/4	2,114.91	3/4	2,456.78	3/4	2,798.21	3/4	3,139.17
4	71.51	4	413.24	4	755.09	4	1,096.47	4	1,438.31	4	1,780.18	4	2,122.04	4	2,463.90	4	2,805.31	4	3,146.27
1/4	78.60	1/4	420.36	1/4	762.21	1/4	1,103.58	1/4	1,445.44	1/4	1,787.30	1/4	2,129.16	1/4	2,471.02	1/4	2,812.42	1/4	3,153.35
1/2	85.70	1/2	427.48	1/2	769.33	1/2	1,110.70	1/2	1,452.56	1/2	1,794.42	1/2	2,136.28	1/2	2,478.14	1/2	2,819.52	1/2	3,160.44
3/4	92.80	3/4	434.60	3/4	776.45	3/4	1,117.82	3/4	1,459.68	3/4	1,801.54	3/4	2,143.40	3/4	2,485.26	3/4	2,826.62	3/4	3,167.53
5	99.90	5	441.73	5	783.58	5	1,124.94	5	1,466.80	5	1,808.66	5	2,150.52	5	2,492.39	5	2,833.73	5	3,174.61
1/4	107.02	1/4	448.85	1/4	790.70	1/4	1,132.06	1/4	1,473.93	1/4	1,815.79	1/4	2,157.65	1/4	2,499.51	1/4	2,840.83	1/4	3,181.70
1/2	114.13	1/2	455.97	1/2	797.82	1/2	1,139.19	1/2	1,481.05	1/2	1,822.91	1/2	2,164.77	1/2	2,506.64	1/2	2,847.94	1/2	3,188.79
3/4	121.25	3/4	463.09	3/4	804.94	3/4	1,146.31	3/4	1,488.17	3/4	1,830.03	3/4	2,171.89	3/4	2,513.76	3/4	2,855.04	3/4	3,195.87
6	128.36	6	470.21	6	812.06	6	1,153.43	6	1,495.29	6	1,837.15	6	2,179.01	6	2,520.89	6	2,862.14	6	3,202.96
1/4	135.49	1/4	477.33	1/4	819.18	1/4	1,160.55	1/4	1,502.41	1/4	1,844.27	1/4	2,186.14	1/4	2,528.01	1/4	2,869.25	1/4	3,210.05
1/2	142.61	1/2	484.46	1/2	826.30	1/2	1,167.68	1/2	1,509.54	1/2	1,851.40	1/2	2,193.26	1/2	2,535.13	1/2	2,876.35	1/2	3,217.13
3/4	149.73	3/4	491.58	3/4	833.42	3/4	1,174.80	3/4	1,516.66	3/4	1,858.52	3/4	2,200.38	3/4	2,542.25	3/4	2,883.46	3/4	3,224.22
7	156.85	7	498.70	7	840.54	7	1,181.92	7	1,523.78	7	1,865.64	7	2,207.50	7	2,549.38	7	2,890.56	7	3,231.31
1/4	163.97	1/4	505.82	1/4	847.65	1/4	1,189.04	1/4	1,530.90	1/4	1,872.76	1/4	2,214.62	1/4	2,556.50	1/4	2,897.66	1/4	3,238.39
1/2	171.09	1/2	512.94	1/2	854.77	1/2	1,196.16	1/2	1,538.02	1/2	1,879.89	1/2	2,221.75	1/2	2,563.62	1/2	2,904.77	1/2	3,245.48
3/4	178.21	3/4	520.07	3/4	861.88	3/4	1,203.29	3/4	1,545.15	3/4	1,887.01	3/4	2,228.87	3/4	2,570.75	3/4	2,911.87	3/4	3,252.57
8	185.34	8	527.19	8	868.99	8	1,210.41	8	1,552.27	8	1,894.13	8	2,235.99	8	2,577.87	8	2,918.98	8	3,259.65
1/4	192.46	1/4	534.31	1/4	876.10	1/4	1,217.53	1/4	1,559.39	1/4	1,901.25	1/4	2,243.11	1/4	2,584.99	1/4	2,926.08	1/4	3,266.74
1/2	199.58	1/2	541.43	1/2	883.21	1/2	1,224.65	1/2	1,566.51	1/2	1,908.37	1/2	2,250.23	1/2	2,592.12	1/2	2,933.18	1/2	3,273.83
3/4	206.70	3/4	548.55	3/4	890.31	3/4	1,231.77	3/4	1,573.63	3/4	1,915.50	3/4	2,257.36	3/4	2,599.24	3/4	2,940.29	3/4	3,280.91
9	213.82	9	555.68	9	897.42	9	1,238.90	9	1,580.76	9	1,922.62	9	2,264.48	9	2,606.36	9	2,947.39	9	3,288.00
1/4	220.95	1/4	562.80	1/4	904.53	1/4	1,246.02	1/4	1,587.88	1/4	1,929.74	1/4	2,271.60	1/4	2,613.48	1/4	2,954.50	1/4	3,295.09
1/2	228.07	1/2	569.92	1/2	911.64	1/2	1,253.14	1/2	1,595.00	1/2	1,936.86	1/2	2,278.72	1/2	2,620.59	1/2	2,961.60	1/2	3,302.17
3/4	235.19	3/4	577.04	3/4	918.75	3/4	1,260.26	3/4	1,602.12	3/4	1,943.98	3/4	2,285.84	3/4	2,627.70	3/4	2,968.70	3/4	3,309.26
10	242.31	10	584.16	10	925.85	10	1,267.38	10	1,609.25	10	1,951.11	10	2,292.97	10	2,634.82	10	2,975.81	10	3,316.35
1/4	249.43	1/4	591.29	1/4	932.96	1/4	1,274.51	1/4	1,616.37	1/4	1,958.23	1/4	2,300.09	1/4	2,641.92	1/4	2,982.91	1/4	3,323.43
1/2	256.56	1/2	598.41	1/2	940.07	1/2	1,281.63	1/2	1,623.49	1/2	1,965.35	1/2	2,307.21	1/2	2,649.02	1/2	2,990.02	1/2	3,330.52
3/4	263.68	3/4	605.53	3/4	947.18	3/4	1,288.75	3/4	1,630.61	3/4	1,972.47	3/4	2,314.33	3/4	2,656.13	3/4	2,997.12	3/4	3,337.61
11	270.80	11	612.65	11	954.29	11	1,295.87	11	1,637.73	11	1,979.59	11	2,321.46	11	2,663.23	11	3,004.22	11	3,344.69
1/4	277.92	1/4	619.77	1/4	961.39	1/4	1,302.99	1/4	1,644.86	1/4	1,986.72	1/4	2,328.58	1/4	2,670.34	1/4	3,011.33	1/4	3,351.78
1/2	285.04	1/2	626.89	1/2	968.50	1/2	1,310.12	1/2	1,651.98	1/2	1,993.84	1/2	2,335.70	1/2	2,677.44	1/2	3,018.43	1/2	3,358.87
3/4	292.17	3/4	634.02	3/4	975.61	3/4	1,317.24	3/4	1,659.10	3/4	2,000.96	3/4	2,342.82	3/4	2,684.54	3/4	3,025.54	3/4	3,365.96

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the  
BARGE "FMT 3312"

**3 STBD**  
**INNAGE TABLE**  
**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,367.53	0	3,576.98	0	3,786.64	0	3,996.03	0	4,204.78	0	4,395.25	0		0		0		0	
1/4	3,371.86	1/4	3,581.34	1/4	3,791.00	1/4	4,000.38	1/4	4,209.13	1/4	4,396.96	1/4		1/4		1/4		1/4	
1/2	3,376.19	1/2	3,585.71	1/2	3,795.37	1/2	4,004.73	1/2	4,213.48	1/2	4,398.67	1/2		1/2		1/2		1/2	
3/4	3,380.53	3/4	3,590.08	3/4	3,799.74	3/4	4,009.08	3/4	4,217.82	3/4	4,400.37	3/4		3/4		3/4		3/4	
1	3,384.86	1	3,594.45	1	3,804.11	1	4,013.43	1	4,222.17	1	4,402.08	1		1		1		1	
1/4	3,389.21	1/4	3,598.82	1/4	3,808.48	1/4	4,017.77	1/4	4,226.52	1/4	4,403.78	1/4		1/4		1/4		1/4	
1/2	3,393.56	1/2	3,603.18	1/2	3,812.84	1/2	4,022.12	1/2	4,230.87	1/2	4,405.49	1/2		1/2		1/2		1/2	
3/4	3,397.91	3/4	3,607.55	3/4	3,817.21	3/4	4,026.47	3/4	4,235.22	3/4	4,407.20	3/4		3/4		3/4		3/4	
2	3,402.26	2	3,611.92	2	3,821.58	2	4,030.82	2	4,239.57	2	4,408.90	2		2		2		2	
1/4	3,406.63	1/4	3,616.29	1/4	3,825.95	1/4	4,035.17	1/4	4,243.92	1/4	4,409.98	1/4		1/4		1/4		1/4	
1/2	3,411.00	1/2	3,620.66	1/2	3,830.31	1/2	4,039.52	1/2	4,248.27	1/2	4,411.05	1/2		1/2		1/2		1/2	
3/4	3,415.36	3/4	3,625.02	3/4	3,834.68	3/4	4,043.87	3/4	4,252.62	3/4	4,412.13	3/4		3/4		3/4		3/4	
3	3,419.73	3	3,629.39	3	3,839.05	3	4,048.22	3	4,256.96	3	4,413.21	3		3		3		3	
1/4	3,424.10	1/4	3,633.76	1/4	3,843.42	1/4	4,052.57	1/4	4,261.31	1/4		1/4		1/4		1/4		1/4	
1/2	3,428.47	1/2	3,638.13	1/2	3,847.79	1/2	4,056.92	1/2	4,265.66	1/2		1/2		1/2		1/2		1/2	
3/4	3,432.84	3/4	3,642.49	3/4	3,852.15	3/4	4,061.26	3/4	4,270.01	3/4		3/4		3/4		3/4		3/4	
4	3,437.20	4	3,646.86	4	3,856.52	4	4,065.61	4	4,274.36	4		4		4		4		4	
1/4	3,441.57	1/4	3,651.23	1/4	3,860.89	1/4	4,069.96	1/4	4,278.69	1/4		1/4		1/4		1/4		1/4	
1/2	3,445.94	1/2	3,655.60	1/2	3,865.26	1/2	4,074.31	1/2	4,283.03	1/2		1/2		1/2		1/2		1/2	
3/4	3,450.31	3/4	3,659.97	3/4	3,869.63	3/4	4,078.66	3/4	4,287.36	3/4		3/4		3/4		3/4		3/4	
5	3,454.68	5	3,664.33	5	3,873.99	5	4,083.01	5	4,291.70	5		5		5		5		5	
1/4	3,459.04	1/4	3,668.70	1/4	3,878.36	1/4	4,087.36	1/4	4,296.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,463.41	1/2	3,673.07	1/2	3,882.73	1/2	4,091.71	1/2	4,300.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,467.78	3/4	3,677.44	3/4	3,887.10	3/4	4,096.06	3/4	4,304.66	3/4		3/4		3/4		3/4		3/4	
6	3,472.15	6	3,681.81	6	3,891.47	6	4,100.40	6	4,308.98	6		6		6		6		6	
1/4	3,476.51	1/4	3,686.17	1/4	3,895.83	1/4	4,104.75	1/4	4,313.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,480.88	1/2	3,690.54	1/2	3,900.20	1/2	4,109.10	1/2	4,317.62	1/2		1/2		1/2		1/2		1/2	
3/4	3,485.25	3/4	3,694.91	3/4	3,904.57	3/4	4,113.45	3/4	4,321.94	3/4		3/4		3/4		3/4		3/4	
7	3,489.62	7	3,699.28	7	3,908.94	7	4,117.80	7	4,326.26	7		7		7		7		7	
1/4	3,493.99	1/4	3,703.65	1/4	3,913.30	1/4	4,122.15	1/4	4,330.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,498.35	1/2	3,708.01	1/2	3,917.67	1/2	4,126.50	1/2	4,334.89	1/2		1/2		1/2		1/2		1/2	
3/4	3,502.72	3/4	3,712.38	3/4	3,922.04	3/4	4,130.85	3/4	4,339.20	3/4		3/4		3/4		3/4		3/4	
8	3,507.09	8	3,716.75	8	3,926.41	8	4,135.20	8	4,343.51	8		8		8		8		8	
1/4	3,511.46	1/4	3,721.12	1/4	3,930.77	1/4	4,139.54	1/4	4,347.79	1/4		1/4		1/4		1/4		1/4	
1/2	3,515.83	1/2	3,725.49	1/2	3,935.13	1/2	4,143.89	1/2	4,352.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,520.19	3/4	3,729.85	3/4	3,939.48	3/4	4,148.24	3/4	4,356.35	3/4		3/4		3/4		3/4		3/4	
9	3,524.56	9	3,734.22	9	3,943.84	9	4,152.59	9	4,360.63	9		9		9		9		9	
1/4	3,528.93	1/4	3,738.59	1/4	3,948.19	1/4	4,156.94	1/4	4,364.47	1/4		1/4		1/4		1/4		1/4	
1/2	3,533.30	1/2	3,742.96	1/2	3,952.54	1/2	4,161.29	1/2	4,368.32	1/2		1/2		1/2		1/2		1/2	
3/4	3,537.67	3/4	3,747.32	3/4	3,956.89	3/4	4,165.64	3/4	4,372.16	3/4		3/4		3/4		3/4		3/4	
10	3,542.03	10	3,751.69	10	3,961.24	10	4,169.99	10	4,376.00	10		10		10		10		10	
1/4	3,546.40	1/4	3,756.06	1/4	3,965.59	1/4	4,174.34	1/4	4,378.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,550.77	1/2	3,760.43	1/2	3,969.94	1/2	4,178.68	1/2	4,381.68	1/2		1/2		1/2		1/2		1/2	
3/4	3,555.14	3/4	3,764.80	3/4	3,974.29	3/4	4,183.03	3/4	4,384.51	3/4		3/4		3/4		3/4		3/4	
11	3,559.50	11	3,769.16	11	3,978.63	11	4,187.38	11	4,387.35	11		11		11		11		11	
1/4	3,563.87	1/4	3,773.53	1/4	3,982.98	1/4	4,191.73	1/4	4,389.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,568.24	1/2	3,777.90	1/2	3,987.33	1/2	4,196.08	1/2	4,391.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,572.61	3/4	3,782.27	3/4	3,991.68	3/4	4,200.43	3/4	4,393.28	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
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P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020



# BARGE "HSM 3312"

formerly the

## BARGE "FMT 3312" ULLAGE (10" HATCH)



	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
1 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
3 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-0/8	- 08-0/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-0/8	- 08-0/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS 08-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-08 1/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

July 22, 2020

PRECISION MEASUREMENT  
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<http://www.pmacorp.net>



**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**1 PORT**  
**ULLAGE TABLE**

**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,040.49	0	4,755.06	0	4,413.35	0	4,070.79	0	3,727.51	0	3,384.30	0	3,041.11
1/4		1/4		1/4		1/4	5,038.48	1/4	4,747.94	1/4	4,406.23	1/4	4,063.64	1/4	3,720.36	1/4	3,377.15	1/4	3,033.96
1/2		1/2		1/2		1/2	5,036.48	1/2	4,740.82	1/2	4,399.11	1/2	4,056.49	1/2	3,713.20	1/2	3,370.00	1/2	3,026.81
3/4		3/4		3/4		3/4	5,034.47	3/4	4,733.71	3/4	4,391.99	3/4	4,049.33	3/4	3,706.05	3/4	3,362.85	3/4	3,019.66
1		1		1		1	5,032.46	1	4,726.59	1	4,384.87	1	4,042.18	1	3,698.90	1	3,355.70	1	3,012.51
1/4		1/4		1/4		1/4	5,029.26	1/4	4,719.47	1/4	4,377.76	1/4	4,035.03	1/4	3,691.75	1/4	3,348.55	1/4	3,005.36
1/2		1/2		1/2		1/2	5,026.06	1/2	4,712.35	1/2	4,370.64	1/2	4,027.88	1/2	3,684.60	1/2	3,341.40	1/2	2,998.21
3/4		3/4		3/4		3/4	5,022.86	3/4	4,705.23	3/4	4,363.52	3/4	4,020.73	3/4	3,677.45	3/4	3,334.25	3/4	2,991.06
2		2		2		2	5,019.66	2	4,698.11	2	4,356.40	2	4,013.58	2	3,670.29	2	3,327.10	2	2,983.91
1/4		1/4		1/4		1/4	5,015.27	1/4	4,690.99	1/4	4,349.28	1/4	4,006.42	1/4	3,663.14	1/4	3,319.95	1/4	2,976.75
1/2		1/2		1/2		1/2	5,010.88	1/2	4,683.87	1/2	4,342.16	1/2	3,999.27	1/2	3,655.99	1/2	3,312.80	1/2	2,969.60
3/4		3/4		3/4		3/4	5,006.48	3/4	4,676.75	3/4	4,335.04	3/4	3,992.12	3/4	3,648.84	3/4	3,305.65	3/4	2,962.45
3		3		3		3	5,002.09	3	4,669.63	3	4,327.92	3	3,984.97	3	3,641.69	3	3,298.50	3	2,955.30
1/4		1/4		1/4		1/4	4,996.51	1/4	4,662.52	1/4	4,320.80	1/4	3,977.82	1/4	3,634.54	1/4	3,291.35	1/4	2,948.15
1/2		1/2		1/2		1/2	4,990.92	1/2	4,655.40	1/2	4,313.68	1/2	3,970.67	1/2	3,627.39	1/2	3,284.20	1/2	2,941.00
3/4		3/4		3/4		3/4	4,985.34	3/4	4,648.28	3/4	4,306.57	3/4	3,963.51	3/4	3,620.24	3/4	3,277.05	3/4	2,933.85
4		4		4		4	4,979.76	4	4,641.16	4	4,299.45	4	3,956.36	4	3,613.09	4	3,269.90	4	2,926.69
1/4		1/4		1/4		1/4	4,973.16	1/4	4,634.04	1/4	4,292.33	1/4	3,949.21	1/4	3,605.94	1/4	3,262.75	1/4	2,919.54
1/2		1/2		1/2		1/2	4,966.57	1/2	4,626.92	1/2	4,285.21	1/2	3,942.06	1/2	3,598.79	1/2	3,255.60	1/2	2,912.39
3/4		3/4		3/4		3/4	4,959.98	3/4	4,619.80	3/4	4,278.09	3/4	3,934.91	3/4	3,591.64	3/4	3,248.45	3/4	2,905.24
5		5		5		5	4,953.39	5	4,612.68	5	4,270.97	5	3,927.76	5	3,584.49	5	3,241.30	5	2,898.09
1/4		1/4		1/4		1/4	4,946.35	1/4	4,605.56	1/4	4,263.84	1/4	3,920.60	1/4	3,577.34	1/4	3,234.15	1/4	2,890.94
1/2		1/2		1/2		1/2	4,939.32	1/2	4,598.44	1/2	4,256.70	1/2	3,913.45	1/2	3,570.19	1/2	3,227.00	1/2	2,883.78
3/4		3/4		3/4		3/4	4,932.29	3/4	4,591.33	3/4	4,249.57	3/4	3,906.30	3/4	3,563.04	3/4	3,219.85	3/4	2,876.63
6		6		6		6	4,925.26	6	4,584.21	6	4,242.43	6	3,899.15	6	3,555.89	6	3,212.70	6	2,869.48
1/4		1/4		1/4		1/4	4,918.19	1/4	4,577.09	1/4	4,235.28	1/4	3,892.00	1/4	3,548.74	1/4	3,205.55	1/4	2,862.33
1/2		1/2		1/2		1/2	4,911.12	1/2	4,569.97	1/2	4,228.13	1/2	3,884.85	1/2	3,541.59	1/2	3,198.40	1/2	2,855.18
3/4		3/4		3/4		3/4	4,904.06	3/4	4,562.85	3/4	4,220.98	3/4	3,877.69	3/4	3,534.44	3/4	3,191.25	3/4	2,848.03
7		7		7		7	4,896.99	7	4,555.73	7	4,213.82	7	3,870.54	7	3,527.29	7	3,184.11	7	2,840.87
1/4		1/4		1/4		1/4	4,889.92	1/4	4,548.61	1/4	4,206.67	1/4	3,863.39	1/4	3,520.14	1/4	3,176.96	1/4	2,833.72
1/2		1/2		1/2		1/2	4,882.84	1/2	4,541.49	1/2	4,199.52	1/2	3,856.24	1/2	3,512.99	1/2	3,169.81	1/2	2,826.57
3/4		3/4		3/4		3/4	4,875.77	3/4	4,534.37	3/4	4,192.37	3/4	3,849.09	3/4	3,505.84	3/4	3,162.66	3/4	2,819.42
8		8		8		8	4,868.70	8	4,527.25	8	4,185.22	8	3,841.94	8	3,498.69	8	3,155.51	8	2,812.27
1/4		1/4		1/4		1/4	4,861.62	1/4	4,520.14	1/4	4,178.07	1/4	3,834.78	1/4	3,491.54	1/4	3,148.36	1/4	2,805.12
1/2		1/2		1/2		1/2	4,854.55	1/2	4,513.02	1/2	4,170.91	1/2	3,827.63	1/2	3,484.39	1/2	3,141.21	1/2	2,797.96
3/4		3/4		3/4		3/4	4,847.47	3/4	4,505.90	3/4	4,163.76	3/4	3,820.48	3/4	3,477.24	3/4	3,134.06	3/4	2,790.81
9		9		9		9	4,840.40	9	4,498.78	9	4,156.61	9	3,813.33	9	3,470.09	9	3,126.91	9	2,783.66
1/4		1/4		1/4		1/4	4,833.30	1/4	4,491.66	1/4	4,149.46	1/4	3,806.18	1/4	3,462.94	1/4	3,119.76	1/4	2,776.51
1/2		1/2		1/2		1/2	4,826.21	1/2	4,484.54	1/2	4,142.31	1/2	3,799.03	1/2	3,455.79	1/2	3,112.61	1/2	2,769.36
3/4		3/4		3/4		3/4	4,819.11	3/4	4,477.42	3/4	4,135.15	3/4	3,791.87	3/4	3,448.64	3/4	3,105.46	3/4	2,762.21
10		10		10		10	4,812.01	10	4,470.30	10	4,128.00	10	3,784.72	10	3,441.49	10	3,098.31	10	2,755.06
1/4		1/4		1/4		1/4	4,804.90	1/4	4,463.18	1/4	4,120.85	1/4	3,777.57	1/4	3,434.34	1/4	3,091.16	1/4	2,747.90
1/2		1/2		1/2		1/2	4,797.78	1/2	4,456.06	1/2	4,113.70	1/2	3,770.42	1/2	3,427.20	1/2	3,084.01	1/2	2,740.75
3/4		3/4		3/4		3/4	4,790.66	3/4	4,448.95	3/4	4,106.55	3/4	3,763.27	3/4	3,420.05	3/4	3,076.86	3/4	2,733.60
11		11		11	5,044.21	11	4,783.54	11	4,441.83	11	4,099.40	11	3,756.11	11	3,412.90	11	3,069.71	11	2,726.45
1/4		1/4		1/4	5,043.28	1/4	4,776.42	1/4	4,434.71	1/4	4,092.24	1/4	3,748.96	1/4	3,405.75	1/4	3,062.56	1/4	2,719.30
1/2		1/2		1/2	5,042.35	1/2	4,769.30	1/2	4,427.59	1/2	4,085.09	1/2	3,741.81	1/2	3,398.60	1/2	3,055.41	1/2	2,712.15
3/4		3/4		3/4	5,041.42	3/4	4,762.18	3/4	4,420.47	3/4	4,077.94	3/4	3,734.66	3/4	3,391.45	3/4	3,048.26	3/4	2,704.99

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the  
BARGE "FMT 3312"

**1 PORT**  
**ULLAGE TABLE**  
**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,697.84	0	2,354.55	0	2,011.25	0	1,667.95	0	1,324.64	0	982.05	0	640.68	0	304.53	0	20.52	0	
1/4	2,690.69	1/4	2,347.39	1/4	2,004.09	1/4	1,660.79	1/4	1,317.49	1/4	974.96	1/4	633.53	1/4	297.96	1/4	17.71	1/4	
1/2	2,683.54	1/2	2,340.24	1/2	1,996.94	1/2	1,653.64	1/2	1,310.34	1/2	967.87	1/2	626.37	1/2	291.40	1/2	14.91	1/2	
3/4	2,676.39	3/4	2,333.09	3/4	1,989.79	3/4	1,646.49	3/4	1,303.19	3/4	960.78	3/4	619.22	3/4	284.83	3/4	12.11	3/4	
1	2,669.24	1	2,325.94	1	1,982.64	1	1,639.34	1	1,296.04	1	953.69	1	612.07	1	278.26	1	9.31	1	
1/4	2,662.08	1/4	2,318.79	1/4	1,975.49	1/4	1,632.18	1/4	1,288.88	1/4	946.59	1/4	604.92	1/4	271.78	1/4	7.52	1/4	
1/2	2,654.93	1/2	2,311.63	1/2	1,968.33	1/2	1,625.03	1/2	1,281.73	1/2	939.50	1/2	597.77	1/2	265.30	1/2	5.73	1/2	
3/4	2,647.78	3/4	2,304.48	3/4	1,961.18	3/4	1,617.88	3/4	1,274.58	3/4	932.41	3/4	590.62	3/4	258.81	3/4	3.94	3/4	
2	2,640.63	2	2,297.33	2	1,954.03	2	1,610.73	2	1,267.43	2	925.32	2	583.46	2	252.33	2	2.16	2	
1/4	2,633.48	1/4	2,290.18	1/4	1,946.88	1/4	1,603.58	1/4	1,260.28	1/4	918.23	1/4	576.31	1/4	245.93	1/4		1/4	
1/2	2,626.33	1/2	2,283.03	1/2	1,939.73	1/2	1,596.42	1/2	1,253.12	1/2	911.14	1/2	569.16	1/2	239.53	1/2		1/2	
3/4	2,619.17	3/4	2,275.87	3/4	1,932.57	3/4	1,589.27	3/4	1,245.97	3/4	904.04	3/4	562.01	3/4	233.13	3/4		3/4	
3	2,612.02	3	2,268.72	3	1,925.42	3	1,582.12	3	1,238.82	3	896.95	3	554.86	3	226.73	3		3	
1/4	2,604.87	1/4	2,261.57	1/4	1,918.27	1/4	1,574.97	1/4	1,231.67	1/4	889.86	1/4	547.70	1/4	220.41	1/4		1/4	
1/2	2,597.72	1/2	2,254.42	1/2	1,911.12	1/2	1,567.82	1/2	1,224.52	1/2	882.77	1/2	540.55	1/2	214.10	1/2		1/2	
3/4	2,590.57	3/4	2,247.27	3/4	1,903.96	3/4	1,560.66	3/4	1,217.36	3/4	875.68	3/4	533.40	3/4	207.78	3/4		3/4	
4	2,583.41	4	2,240.11	4	1,896.81	4	1,553.51	4	1,210.21	4	868.59	4	526.25	4	201.46	4		4	
1/4	2,576.26	1/4	2,232.96	1/4	1,889.66	1/4	1,546.36	1/4	1,203.06	1/4	861.50	1/4	519.10	1/4	195.23	1/4		1/4	
1/2	2,569.11	1/2	2,225.81	1/2	1,882.51	1/2	1,539.21	1/2	1,195.91	1/2	854.40	1/2	511.94	1/2	189.00	1/2		1/2	
3/4	2,561.96	3/4	2,218.66	3/4	1,875.36	3/4	1,532.06	3/4	1,188.75	3/4	847.31	3/4	504.79	3/4	182.77	3/4		3/4	
5	2,554.81	5	2,211.50	5	1,868.20	5	1,524.90	5	1,181.60	5	840.22	5	497.64	5	176.53	5		5	
1/4	2,547.65	1/4	2,204.35	1/4	1,861.05	1/4	1,517.75	1/4	1,174.45	1/4	833.13	1/4	490.51	1/4	170.38	1/4		1/4	
1/2	2,540.50	1/2	2,197.20	1/2	1,853.90	1/2	1,510.60	1/2	1,167.30	1/2	826.04	1/2	483.38	1/2	164.24	1/2		1/2	
3/4	2,533.35	3/4	2,190.05	3/4	1,846.75	3/4	1,503.45	3/4	1,160.15	3/4	818.95	3/4	476.26	3/4	158.09	3/4		3/4	
6	2,526.20	6	2,182.90	6	1,839.60	6	1,496.29	6	1,152.99	6	811.86	6	469.13	6	151.94	6		6	
1/4	2,519.05	1/4	2,175.74	1/4	1,832.44	1/4	1,489.14	1/4	1,145.84	1/4	804.76	1/4	462.06	1/4	145.87	1/4		1/4	
1/2	2,511.89	1/2	2,168.59	1/2	1,825.29	1/2	1,481.99	1/2	1,138.69	1/2	797.67	1/2	455.00	1/2	139.81	1/2		1/2	
3/4	2,504.74	3/4	2,161.44	3/4	1,818.14	3/4	1,474.84	3/4	1,131.54	3/4	790.57	3/4	447.94	3/4	133.74	3/4		3/4	
7	2,497.59	7	2,154.29	7	1,810.99	7	1,467.69	7	1,124.39	7	783.47	7	440.87	7	127.68	7		7	
1/4	2,490.44	1/4	2,147.14	1/4	1,803.84	1/4	1,460.53	1/4	1,117.23	1/4	776.37	1/4	433.89	1/4	121.69	1/4		1/4	
1/2	2,483.28	1/2	2,139.98	1/2	1,796.68	1/2	1,453.38	1/2	1,110.08	1/2	769.26	1/2	426.91	1/2	115.71	1/2		1/2	
3/4	2,476.13	3/4	2,132.83	3/4	1,789.53	3/4	1,446.23	3/4	1,102.93	3/4	762.15	3/4	419.93	3/4	109.73	3/4		3/4	
8	2,468.98	8	2,125.68	8	1,782.38	8	1,439.08	8	1,095.78	8	755.04	8	412.95	8	103.75	8		8	
1/4	2,461.83	1/4	2,118.53	1/4	1,775.23	1/4	1,431.93	1/4	1,088.64	1/4	747.91	1/4	406.04	1/4	97.86	1/4		1/4	
1/2	2,454.68	1/2	2,111.38	1/2	1,768.07	1/2	1,424.77	1/2	1,081.51	1/2	740.77	1/2	399.14	1/2	91.97	1/2		1/2	
3/4	2,447.52	3/4	2,104.22	3/4	1,760.92	3/4	1,417.62	3/4	1,074.37	3/4	733.64	3/4	392.24	3/4	86.07	3/4		3/4	
9	2,440.37	9	2,097.07	9	1,753.77	9	1,410.47	9	1,067.24	9	726.50	9	385.34	9	80.18	9		9	
1/4	2,433.22	1/4	2,089.92	1/4	1,746.62	1/4	1,403.32	1/4	1,060.13	1/4	719.35	1/4	378.52	1/4	74.39	1/4		1/4	
1/2	2,426.07	1/2	2,082.77	1/2	1,739.47	1/2	1,396.17	1/2	1,053.02	1/2	712.20	1/2	371.70	1/2	68.60	1/2		1/2	
3/4	2,418.92	3/4	2,075.61	3/4	1,732.31	3/4	1,389.01	3/4	1,045.91	3/4	705.05	3/4	364.89	3/4	62.81	3/4		3/4	
10	2,411.76	10	2,068.46	10	1,725.16	10	1,381.86	10	1,038.80	10	697.89	10	358.07	10	57.01	10		10	
1/4	2,404.61	1/4	2,061.31	1/4	1,718.01	1/4	1,374.71	1/4	1,031.71	1/4	690.74	1/4	351.34	1/4	51.75	1/4		1/4	
1/2	2,397.46	1/2	2,054.16	1/2	1,710.86	1/2	1,367.56	1/2	1,024.61	1/2	683.59	1/2	344.60	1/2	46.48	1/2		1/2	
3/4	2,390.31	3/4	2,047.01	3/4	1,703.71	3/4	1,360.40	3/4	1,017.51	3/4	676.44	3/4	337.87	3/4	41.22	3/4		3/4	
11	2,383.16	11	2,039.85	11	1,696.55	11	1,353.25	11	1,010.42	11	669.29	11	331.13	11	35.95	11		11	
1/4	2,376.00	1/4	2,032.70	1/4	1,689.40	1/4	1,346.10	1/4	1,003.33	1/4	662.13	1/4	324.48	1/4	32.09	1/4		1/4	
1/2	2,368.85	1/2	2,025.55	1/2	1,682.25	1/2	1,338.95	1/2	996.24	1/2	654.98	1/2	317.83	1/2	28.24	1/2		1/2	
3/4	2,361.70	3/4	2,018.40	3/4	1,675.10	3/4	1,331.80	3/4	989.14	3/4	647.83	3/4	311.18	3/4	24.38	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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<http://www.pmacorp.net>

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020



# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

## 1 STBD ULLAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,038.10	0	4,752.94	0	4,411.55	0	4,069.31	0	3,726.35	0	3,383.46	0	3,040.59
1/4		1/4		1/4		1/4	5,036.09	1/4	4,745.82	1/4	4,404.43	1/4	4,062.16	1/4	3,719.20	1/4	3,376.32	1/4	3,033.45
1/2		1/2		1/2		1/2	5,034.08	1/2	4,738.71	1/2	4,397.32	1/2	4,055.02	1/2	3,712.06	1/2	3,369.17	1/2	3,026.31
3/4		3/4		3/4		3/4	5,032.08	3/4	4,731.60	3/4	4,390.21	3/4	4,047.87	3/4	3,704.91	3/4	3,362.03	3/4	3,019.17
1		1		1		1	5,030.07	1	4,724.49	1	4,383.10	1	4,040.73	1	3,697.77	1	3,354.89	1	3,012.02
1/4		1/4		1/4		1/4	5,026.87	1/4	4,717.38	1/4	4,375.99	1/4	4,033.58	1/4	3,690.62	1/4	3,347.74	1/4	3,004.88
1/2		1/2		1/2		1/2	5,023.68	1/2	4,710.26	1/2	4,368.87	1/2	4,026.44	1/2	3,683.48	1/2	3,340.60	1/2	2,997.73
3/4		3/4		3/4		3/4	5,020.48	3/4	4,703.15	3/4	4,361.76	3/4	4,019.29	3/4	3,676.33	3/4	3,333.46	3/4	2,990.59
2		2		2		2	5,017.28	2	4,696.04	2	4,354.65	2	4,012.15	2	3,669.19	2	3,326.31	2	2,983.44
1/4		1/4		1/4		1/4	5,012.90	1/4	4,688.93	1/4	4,347.54	1/4	4,005.00	1/4	3,662.04	1/4	3,319.17	1/4	2,976.30
1/2		1/2		1/2		1/2	5,008.51	1/2	4,681.81	1/2	4,340.42	1/2	3,997.86	1/2	3,654.90	1/2	3,312.03	1/2	2,969.15
3/4		3/4		3/4		3/4	5,004.12	3/4	4,674.70	3/4	4,333.31	3/4	3,990.71	3/4	3,647.75	3/4	3,304.89	3/4	2,962.01
3		3		3		3	4,999.73	3	4,667.59	3	4,326.20	3	3,983.57	3	3,640.61	3	3,297.74	3	2,954.86
1/4		1/4		1/4		1/4	4,994.15	1/4	4,660.48	1/4	4,319.09	1/4	3,976.42	1/4	3,633.46	1/4	3,290.60	1/4	2,947.72
1/2		1/2		1/2		1/2	4,988.57	1/2	4,653.37	1/2	4,311.97	1/2	3,969.28	1/2	3,626.32	1/2	3,283.46	1/2	2,940.57
3/4		3/4		3/4		3/4	4,983.00	3/4	4,646.25	3/4	4,304.86	3/4	3,962.13	3/4	3,619.18	3/4	3,276.31	3/4	2,933.43
4		4		4		4	4,977.42	4	4,639.14	4	4,297.75	4	3,954.99	4	3,612.03	4	3,269.17	4	2,926.28
1/4		1/4		1/4		1/4	4,970.83	1/4	4,632.03	1/4	4,290.64	1/4	3,947.84	1/4	3,604.89	1/4	3,262.03	1/4	2,919.14
1/2		1/2		1/2		1/2	4,964.24	1/2	4,624.92	1/2	4,283.53	1/2	3,940.70	1/2	3,597.75	1/2	3,254.88	1/2	2,911.99
3/4		3/4		3/4		3/4	4,957.66	3/4	4,617.80	3/4	4,276.41	3/4	3,933.55	3/4	3,590.61	3/4	3,247.74	3/4	2,904.85
5		5		5		5	4,951.07	5	4,610.69	5	4,269.30	5	3,926.41	5	3,583.46	5	3,240.60	5	2,897.70
1/4		1/4		1/4		1/4	4,944.05	1/4	4,603.58	1/4	4,262.17	1/4	3,919.26	1/4	3,576.32	1/4	3,233.46	1/4	2,890.56
1/2		1/2		1/2		1/2	4,937.02	1/2	4,596.47	1/2	4,255.04	1/2	3,912.12	1/2	3,569.18	1/2	3,226.31	1/2	2,883.41
3/4		3/4		3/4		3/4	4,929.99	3/4	4,589.35	3/4	4,247.92	3/4	3,904.97	3/4	3,562.03	3/4	3,219.17	3/4	2,876.27
6		6		6		6	4,922.97	6	4,582.24	6	4,240.79	6	3,897.83	6	3,554.89	6	3,212.03	6	2,869.12
1/4		1/4		1/4		1/4	4,915.91	1/4	4,575.13	1/4	4,233.64	1/4	3,890.68	1/4	3,547.75	1/4	3,204.88	1/4	2,861.98
1/2		1/2		1/2		1/2	4,908.85	1/2	4,568.02	1/2	4,226.50	1/2	3,883.54	1/2	3,540.60	1/2	3,197.74	1/2	2,854.84
3/4		3/4		3/4		3/4	4,901.79	3/4	4,560.91	3/4	4,219.35	3/4	3,876.39	3/4	3,533.46	3/4	3,190.60	3/4	2,847.69
7		7		7		7	4,894.73	7	4,553.79	7	4,212.21	7	3,869.25	7	3,526.32	7	3,183.45	7	2,840.55
1/4		1/4		1/4		1/4	4,887.66	1/4	4,546.68	1/4	4,205.06	1/4	3,862.10	1/4	3,519.18	1/4	3,176.31	1/4	2,833.40
1/2		1/2		1/2		1/2	4,880.60	1/2	4,539.57	1/2	4,197.92	1/2	3,854.96	1/2	3,512.03	1/2	3,169.17	1/2	2,826.26
3/4		3/4		3/4		3/4	4,873.53	3/4	4,532.46	3/4	4,190.77	3/4	3,847.81	3/4	3,504.89	3/4	3,162.03	3/4	2,819.11
8		8		8		8	4,866.46	8	4,525.34	8	4,183.63	8	3,840.67	8	3,497.75	8	3,154.88	8	2,811.97
1/4		1/4		1/4		1/4	4,859.40	1/4	4,518.23	1/4	4,176.48	1/4	3,833.52	1/4	3,490.60	1/4	3,147.74	1/4	2,804.82
1/2		1/2		1/2		1/2	4,852.33	1/2	4,511.12	1/2	4,169.34	1/2	3,826.38	1/2	3,483.46	1/2	3,140.60	1/2	2,797.68
3/4		3/4		3/4		3/4	4,845.26	3/4	4,504.01	3/4	4,162.19	3/4	3,819.23	3/4	3,476.32	3/4	3,133.45	3/4	2,790.53
9		9		9		9	4,838.19	9	4,496.89	9	4,155.05	9	3,812.09	9	3,469.17	9	3,126.31	9	2,783.39
1/4		1/4		1/4		1/4	4,831.10	1/4	4,489.78	1/4	4,147.90	1/4	3,804.94	1/4	3,462.03	1/4	3,119.17	1/4	2,776.24
1/2		1/2		1/2		1/2	4,824.02	1/2	4,482.67	1/2	4,140.76	1/2	3,797.80	1/2	3,454.89	1/2	3,112.02	1/2	2,769.10
3/4		3/4		3/4		3/4	4,816.93	3/4	4,475.56	3/4	4,133.61	3/4	3,790.65	3/4	3,447.75	3/4	3,104.88	3/4	2,761.95
10		10		10		10	4,809.84	10	4,468.45	10	4,126.47	10	3,783.51	10	3,440.60	10	3,097.74	10	2,754.81
1/4		1/4		1/4		1/4	4,802.72	1/4	4,461.33	1/4	4,119.32	1/4	3,776.36	1/4	3,433.46	1/4	3,090.60	1/4	2,747.66
1/2		1/2		1/2		1/2	4,795.61	1/2	4,454.22	1/2	4,112.18	1/2	3,769.22	1/2	3,426.32	1/2	3,083.45	1/2	2,740.52
3/4		3/4		3/4		3/4	4,788.50	3/4	4,447.11	3/4	4,105.03	3/4	3,762.07	3/4	3,419.17	3/4	3,076.31	3/4	2,733.37
11		11		11	5,041.81	11	4,781.39	11	4,440.00	11	4,097.89	11	3,754.93	11	3,412.03	11	3,069.17	11	2,726.23
1/4		1/4		1/4	5,040.88	1/4	4,774.27	1/4	4,432.88	1/4	4,090.74	1/4	3,747.78	1/4	3,404.89	1/4	3,062.02	1/4	2,719.08
1/2		1/2		1/2	5,039.95	1/2	4,767.16	1/2	4,425.77	1/2	4,083.60	1/2	3,740.64	1/2	3,397.74	1/2	3,054.88	1/2	2,711.94
3/4		3/4		3/4	5,039.02	3/4	4,760.05	3/4	4,418.66	3/4	4,076.45	3/4	3,733.49	3/4	3,390.60	3/4	3,047.74	3/4	2,704.79

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

**1 STBD**  
**ULLAGE TABLE**  
**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,697.65	0	2,354.67	0	2,011.69	0	1,668.71	0	1,325.74	0	982.81	0	640.07	0	304.21	0	20.50	0	
1/4	2,690.50	1/4	2,347.53	1/4	2,004.55	1/4	1,661.57	1/4	1,318.59	1/4	975.67	1/4	632.93	1/4	297.65	1/4	17.70	1/4	
1/2	2,683.36	1/2	2,340.38	1/2	1,997.40	1/2	1,654.42	1/2	1,311.44	1/2	968.54	1/2	625.78	1/2	291.09	1/2	14.90	1/2	
3/4	2,676.21	3/4	2,333.24	3/4	1,990.26	3/4	1,647.28	3/4	1,304.30	3/4	961.40	3/4	618.64	3/4	284.53	3/4	12.10	3/4	
1	2,669.07	1	2,326.09	1	1,983.11	1	1,640.13	1	1,297.15	1	954.27	1	611.49	1	277.97	1	9.30	1	
1/4	2,661.92	1/4	2,318.95	1/4	1,975.97	1/4	1,632.99	1/4	1,290.01	1/4	947.13	1/4	604.35	1/4	271.49	1/4	7.51	1/4	
1/2	2,654.78	1/2	2,311.80	1/2	1,968.82	1/2	1,625.84	1/2	1,282.86	1/2	939.99	1/2	597.20	1/2	265.01	1/2	5.73	1/2	
3/4	2,647.63	3/4	2,304.66	3/4	1,961.68	3/4	1,618.70	3/4	1,275.72	3/4	932.86	3/4	590.06	3/4	258.53	3/4	3.94	3/4	
2	2,640.49	2	2,297.51	2	1,954.53	2	1,611.55	2	1,268.57	2	925.72	2	582.91	2	252.06	2	2.15	2	
1/4	2,633.34	1/4	2,290.36	1/4	1,947.39	1/4	1,604.41	1/4	1,261.43	1/4	918.58	1/4	575.77	1/4	245.66	1/4		1/4	
1/2	2,626.20	1/2	2,283.22	1/2	1,940.24	1/2	1,597.26	1/2	1,254.28	1/2	911.45	1/2	568.62	1/2	239.27	1/2		1/2	
3/4	2,619.05	3/4	2,276.07	3/4	1,933.09	3/4	1,590.12	3/4	1,247.14	3/4	904.31	3/4	561.48	3/4	232.88	3/4		3/4	
3	2,611.91	3	2,268.93	3	1,925.95	3	1,582.97	3	1,239.99	3	897.17	3	554.33	3	226.49	3		3	
1/4	2,604.76	1/4	2,261.78	1/4	1,918.80	1/4	1,575.82	1/4	1,232.85	1/4	<del>890.04</del>	1/4	547.19	1/4	220.18	1/4		1/4	
1/2	2,597.62	1/2	2,254.64	1/2	1,911.66	1/2	1,568.68	1/2	1,225.70	1/2	882.90	1/2	540.04	1/2	213.87	1/2		1/2	
3/4	2,590.47	3/4	2,247.49	3/4	1,904.51	3/4	1,561.53	3/4	1,218.55	3/4	875.76	3/4	532.90	3/4	207.56	3/4		3/4	
4	2,583.33	4	2,240.35	4	1,897.37	4	1,554.39	4	1,211.41	4	868.63	4	525.75	4	201.25	4		4	
1/4	2,576.18	1/4	2,233.20	1/4	1,890.22	1/4	1,547.24	1/4	1,204.26	1/4	861.49	1/4	518.61	1/4	195.02	1/4		1/4	
1/2	2,569.04	1/2	2,226.06	1/2	1,883.08	1/2	1,540.10	1/2	1,197.12	1/2	854.35	1/2	511.46	1/2	188.79	1/2		1/2	
3/4	2,561.89	3/4	2,218.91	3/4	1,875.93	3/4	1,532.95	3/4	1,189.97	3/4	847.22	3/4	504.31	3/4	182.57	3/4		3/4	
5	2,554.74	5	2,211.77	5	1,868.79	5	1,525.81	5	1,182.83	5	840.08	5	497.17	5	176.34	5		5	
1/4	2,547.60	1/4	2,204.62	1/4	1,861.64	1/4	1,518.66	1/4	1,175.68	1/4	832.95	1/4	490.05	1/4	170.20	1/4		1/4	
1/2	2,540.45	1/2	2,197.47	1/2	1,854.50	1/2	1,511.52	1/2	1,168.54	1/2	825.81	1/2	482.92	1/2	164.06	1/2		1/2	
3/4	2,533.31	3/4	2,190.33	3/4	1,847.35	3/4	1,504.37	3/4	1,161.39	3/4	818.67	3/4	475.80	3/4	157.91	3/4		3/4	
6	2,526.16	6	2,183.18	6	1,840.20	6	1,497.23	6	1,154.25	6	811.54	6	468.67	6	151.77	6		6	
1/4	2,519.02	1/4	2,176.04	1/4	1,833.06	1/4	1,490.08	1/4	1,147.10	1/4	804.40	1/4	461.61	1/4	145.71	1/4		1/4	
1/2	2,511.87	1/2	2,168.89	1/2	1,825.91	1/2	1,482.93	1/2	1,139.96	1/2	797.26	1/2	454.55	1/2	139.65	1/2		1/2	
3/4	2,504.73	3/4	2,161.75	3/4	1,818.77	3/4	1,475.79	3/4	1,132.81	3/4	790.12	3/4	447.49	3/4	133.60	3/4		3/4	
7	2,497.58	7	2,154.60	7	1,811.62	7	1,468.64	7	1,125.66	7	782.98	7	440.43	7	127.54	7		7	
1/4	2,490.44	1/4	2,147.46	1/4	1,804.48	1/4	1,461.50	1/4	1,118.52	1/4	775.83	1/4	433.45	1/4	121.56	1/4		1/4	
1/2	2,483.29	1/2	2,140.31	1/2	1,797.33	1/2	1,454.35	1/2	1,111.37	1/2	768.69	1/2	426.47	1/2	115.59	1/2		1/2	
3/4	2,476.15	3/4	2,133.17	3/4	1,790.19	3/4	1,447.21	3/4	1,104.23	3/4	761.54	3/4	419.49	3/4	109.61	3/4		3/4	
8	2,469.00	8	2,126.02	8	1,783.04	8	1,440.06	8	1,097.08	8	754.40	8	412.51	8	103.64	8		8	
1/4	2,461.85	1/4	2,118.88	1/4	1,775.90	1/4	1,432.92	1/4	1,089.94	1/4	747.25	1/4	405.62	1/4	97.75	1/4		1/4	
1/2	2,454.71	1/2	2,111.73	1/2	1,768.75	1/2	1,425.77	1/2	1,082.79	1/2	740.11	1/2	398.72	1/2	91.87	1/2		1/2	
3/4	2,447.56	3/4	2,104.58	3/4	1,761.61	3/4	1,418.63	3/4	1,075.65	3/4	732.96	3/4	391.83	3/4	85.98	3/4		3/4	
9	2,440.42	9	2,097.44	9	1,754.46	9	1,411.48	9	1,068.50	9	725.82	9	384.94	9	80.09	9		9	
1/4	2,433.27	1/4	2,090.29	1/4	1,747.31	1/4	1,404.34	1/4	1,061.36	1/4	718.67	1/4	378.12	1/4	74.31	1/4		1/4	
1/2	2,426.13	1/2	2,083.15	1/2	1,740.17	1/2	1,397.19	1/2	1,054.21	1/2	711.53	1/2	371.31	1/2	68.52	1/2		1/2	
3/4	2,418.98	3/4	2,076.00	3/4	1,733.02	3/4	1,390.04	3/4	1,047.07	3/4	704.38	3/4	364.50	3/4	62.74	3/4		3/4	
10	2,411.84	10	2,068.86	10	1,725.88	10	1,382.90	10	1,039.92	10	697.24	10	357.69	10	56.95	10		10	
1/4	2,404.69	1/4	2,061.71	1/4	1,718.73	1/4	1,375.75	1/4	1,032.78	1/4	690.09	1/4	350.96	1/4	51.69	1/4		1/4	
1/2	2,397.55	1/2	2,054.57	1/2	1,711.59	1/2	1,368.61	1/2	1,025.64	1/2	682.94	1/2	344.24	1/2	46.44	1/2		1/2	
3/4	2,390.40	3/4	2,047.42	3/4	1,704.44	3/4	1,361.46	3/4	1,018.50	3/4	675.80	3/4	337.51	3/4	41.18	3/4		3/4	
11	2,383.25	11	2,040.28	11	1,697.30	11	1,354.32	11	1,011.36	11	668.65	11	330.78	11	35.92	11		11	
1/4	2,376.11	1/4	2,033.13	1/4	1,690.15	1/4	1,347.17	1/4	1,004.22	1/4	661.51	1/4	324.14	1/4	32.06	1/4		1/4	
1/2	2,368.96	1/2	2,025.98	1/2	1,683.01	1/2	1,340.03	1/2	997.08	1/2	654.36	1/2	317.49	1/2	28.21	1/2		1/2	
3/4	2,361.82	3/4	2,018.84	3/4	1,675.86	3/4	1,332.88	3/4	989.95	3/4	647.22	3/4	310.85	3/4	24.35	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020







**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**2 PORT**  
**ULLAGE TABLE**

**10" HATCH**  
**GAUGE HEIGHT 18'-02 1/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,077.58	0	4,799.08	0	4,458.25	0	4,116.61	0	3,774.22	0	3,431.83	0	3,089.44
1/4		1/4		1/4		1/4	5,076.65	1/4	4,791.98	1/4	4,451.15	1/4	4,109.47	1/4	3,767.09	1/4	3,424.70	1/4	3,082.31
1/2		1/2		1/2		1/2	5,074.65	1/2	4,784.88	1/2	4,444.05	1/2	4,102.34	1/2	3,759.95	1/2	3,417.56	1/2	3,075.17
3/4		3/4		3/4		3/4	5,072.65	3/4	4,777.78	3/4	4,436.95	3/4	4,095.21	3/4	3,752.82	3/4	3,410.43	3/4	3,068.04
1		1		1		1	5,070.65	1	4,770.68	1	4,429.85	1	4,088.07	1	3,745.69	1	3,403.30	1	3,060.91
1/4		1/4		1/4		1/4	5,068.65	1/4	4,763.58	1/4	4,422.75	1/4	4,080.94	1/4	3,738.55	1/4	3,396.16	1/4	3,053.78
1/2		1/2		1/2		1/2	5,065.46	1/2	4,756.48	1/2	4,415.65	1/2	4,073.81	1/2	3,731.42	1/2	3,389.03	1/2	3,046.65
3/4		3/4		3/4		3/4	5,062.26	3/4	4,749.38	3/4	4,408.55	3/4	4,066.68	3/4	3,724.29	3/4	3,381.90	3/4	3,039.52
2		2		2		2	5,059.07	2	4,742.28	2	4,401.45	2	4,059.54	2	3,717.15	2	3,374.76	2	3,032.39
1/4		1/4		1/4		1/4	5,055.88	1/4	4,735.18	1/4	4,394.35	1/4	4,052.41	1/4	3,710.02	1/4	3,367.63	1/4	3,025.26
1/2		1/2		1/2		1/2	5,051.50	1/2	4,728.08	1/2	4,387.25	1/2	4,045.28	1/2	3,702.89	1/2	3,360.50	1/2	3,018.12
3/4		3/4		3/4		3/4	5,047.12	3/4	4,720.98	3/4	4,380.15	3/4	4,038.14	3/4	3,695.75	3/4	3,353.37	3/4	3,010.99
3		3		3		3	5,042.74	3	4,713.88	3	4,373.05	3	4,031.01	3	3,688.62	3	3,346.23	3	3,003.85
1/4		1/4		1/4		1/4	5,038.36	1/4	4,706.77	1/4	4,365.95	1/4	4,023.88	1/4	3,681.49	1/4	3,339.10	1/4	2,996.72
1/2		1/2		1/2		1/2	5,032.79	1/2	4,699.67	1/2	4,358.85	1/2	4,016.74	1/2	3,674.35	1/2	3,331.97	1/2	2,989.58
3/4		3/4		3/4		3/4	5,027.22	3/4	4,692.57	3/4	4,351.74	3/4	4,009.61	3/4	3,667.22	3/4	3,324.83	3/4	2,982.45
4		4		4		4	5,021.65	4	4,685.47	4	4,344.64	4	4,002.48	4	3,660.09	4	3,317.70	4	2,975.31
1/4		1/4		1/4		1/4	5,016.09	1/4	4,678.37	1/4	4,337.54	1/4	3,995.34	1/4	3,652.96	1/4	3,310.57	1/4	2,968.18
1/2		1/2		1/2		1/2	5,009.51	1/2	4,671.27	1/2	4,330.44	1/2	3,988.21	1/2	3,645.82	1/2	3,303.43	1/2	2,961.04
3/4		3/4		3/4		3/4	5,002.93	3/4	4,664.17	3/4	4,323.34	3/4	3,981.08	3/4	3,638.69	3/4	3,296.30	3/4	2,953.91
5		5		5		5	4,996.36	5	4,657.07	5	4,316.24	5	3,973.95	5	3,631.56	5	3,289.17	5	2,946.77
1/4		1/4		1/4		1/4	4,989.78	1/4	4,649.97	1/4	4,309.14	1/4	3,966.81	1/4	3,624.42	1/4	3,282.03	1/4	2,939.64
1/2		1/2		1/2		1/2	4,982.77	1/2	4,642.87	1/2	4,302.02	1/2	3,959.68	1/2	3,617.29	1/2	3,274.90	1/2	2,932.50
3/4		3/4		3/4		3/4	4,975.75	3/4	4,635.77	3/4	4,294.90	3/4	3,952.55	3/4	3,610.16	3/4	3,267.77	3/4	2,925.37
6		6		6		6	4,968.74	6	4,628.67	6	4,287.79	6	3,945.41	6	3,603.02	6	3,260.64	6	2,918.23
1/4		1/4		1/4		1/4	4,961.73	1/4	4,621.57	1/4	4,280.67	1/4	3,938.28	1/4	3,595.89	1/4	3,253.50	1/4	2,911.10
1/2		1/2		1/2		1/2	4,954.68	1/2	4,614.47	1/2	4,273.54	1/2	3,931.15	1/2	3,588.76	1/2	3,246.37	1/2	2,903.96
3/4		3/4		3/4		3/4	4,947.63	3/4	4,607.37	3/4	4,266.40	3/4	3,924.01	3/4	3,581.62	3/4	3,239.24	3/4	2,896.83
7		7		7		7	4,940.58	7	4,600.27	7	4,259.27	7	3,916.88	7	3,574.49	7	3,232.10	7	2,889.69
1/4		1/4		1/4		1/4	4,933.54	1/4	4,593.17	1/4	4,252.14	1/4	3,909.75	1/4	3,567.36	1/4	3,224.97	1/4	2,882.55
1/2		1/2		1/2		1/2	4,926.48	1/2	4,586.06	1/2	4,245.00	1/2	3,902.61	1/2	3,560.23	1/2	3,217.84	1/2	2,875.42
3/4		3/4		3/4		3/4	4,919.43	3/4	4,578.96	3/4	4,237.87	3/4	3,895.48	3/4	3,553.09	3/4	3,210.70	3/4	2,868.28
8		8		8		8	4,912.38	8	4,571.86	8	4,230.74	8	3,888.35	8	3,545.96	8	3,203.57	8	2,861.15
1/4		1/4		1/4		1/4	4,905.32	1/4	4,564.76	1/4	4,223.60	1/4	3,881.21	1/4	3,538.83	1/4	3,196.44	1/4	2,854.01
1/2		1/2		1/2		1/2	4,898.26	1/2	4,557.66	1/2	4,216.47	1/2	3,874.08	1/2	3,531.69	1/2	3,189.30	1/2	2,846.88
3/4		3/4		3/4		3/4	4,891.21	3/4	4,550.56	3/4	4,209.34	3/4	3,866.95	3/4	3,524.56	3/4	3,182.17	3/4	2,839.74
9		9		9		9	4,884.15	9	4,543.46	9	4,202.20	9	3,859.82	9	3,517.43	9	3,175.04	9	2,832.61
1/4		1/4		1/4		1/4	4,877.10	1/4	4,536.36	1/4	4,195.07	1/4	3,852.68	1/4	3,510.29	1/4	3,167.90	1/4	2,825.47
1/2		1/2		1/2		1/2	4,870.02	1/2	4,529.26	1/2	4,187.94	1/2	3,845.55	1/2	3,503.16	1/2	3,160.77	1/2	2,818.34
3/4		3/4		3/4		3/4	4,862.94	3/4	4,522.16	3/4	4,180.81	3/4	3,838.42	3/4	3,496.03	3/4	3,153.64	3/4	2,811.20
10		10		10		10	4,855.86	10	4,515.06	10	4,173.67	10	3,831.28	10	3,488.89	10	3,146.51	10	2,804.07
1/4		1/4		1/4		1/4	4,848.79	1/4	4,507.96	1/4	4,166.54	1/4	3,824.15	1/4	3,481.76	1/4	3,139.37	1/4	2,796.93
1/2		1/2		1/2		1/2	4,841.69	1/2	4,500.86	1/2	4,159.41	1/2	3,817.02	1/2	3,474.63	1/2	3,132.24	1/2	2,789.80
3/4		3/4		3/4		3/4	4,834.59	3/4	4,493.76	3/4	4,152.27	3/4	3,809.88	3/4	3,467.50	3/4	3,125.11	3/4	2,782.66
11		11		11		11	4,827.49	11	4,486.66	11	4,145.14	11	3,802.75	11	3,460.36	11	3,117.97	11	2,775.53
1/4		1/4		1/4	5,080.36	1/4	4,820.38	1/4	4,479.56	1/4	4,138.01	1/4	3,795.62	1/4	3,453.23	1/4	3,110.84	1/4	2,768.39
1/2		1/2		1/2	5,079.43	1/2	4,813.28	1/2	4,472.46	1/2	4,130.87	1/2	3,788.48	1/2	3,446.10	1/2	3,103.71	1/2	2,761.26
3/4		3/4		3/4	5,078.51	3/4	4,806.18	3/4	4,465.35	3/4	4,123.74	3/4	3,781.35	3/4	3,438.96	3/4	3,096.57	3/4	2,754.12

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

**2 PORT**  
**ULLAGE TABLE**  
**10" HATCH**  
**GAUGE HEIGHT 18'-02 1/4"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,746.99	0	2,404.50	0	2,062.01	0	1,719.52	0	1,377.03	0	1,038.39	0	706.52	0	364.05	0	28.90	0	
1/4	2,739.85	1/4	2,397.36	1/4	2,054.87	1/4	1,712.38	1/4	1,369.89	1/4	1,031.57	1/4	699.39	1/4	356.91	1/4	23.55	1/4	
1/2	2,732.72	1/2	2,390.23	1/2	2,047.74	1/2	1,705.25	1/2	1,362.76	1/2	1,024.74	1/2	692.25	1/2	349.78	1/2	19.99	1/2	
3/4	2,725.58	3/4	2,383.09	3/4	2,040.60	3/4	1,698.11	3/4	1,355.62	3/4	1,017.91	3/4	685.12	3/4	342.64	3/4	16.42	3/4	
1	2,718.45	1	2,375.96	1	2,033.47	1	1,690.98	1	1,348.49	1	1,011.08	1	677.98	1	335.51	1	12.85	1	
1/4	2,711.31	1/4	2,368.82	1/4	2,026.33	1/4	1,683.84	1/4	1,341.35	1/4	1,004.25	1/4	670.85	1/4	328.37	1/4	9.29	1/4	
1/2	2,704.17	1/2	2,361.69	1/2	2,019.20	1/2	1,676.71	1/2	1,334.22	1/2	997.43	1/2	663.71	1/2	321.24	1/2	7.50	1/2	
3/4	2,697.04	3/4	2,354.55	3/4	2,012.06	3/4	1,669.57	3/4	1,327.08	3/4	990.60	3/4	656.58	3/4	314.10	3/4	5.72	3/4	
2	2,689.90	2	2,347.41	2	2,004.93	2	1,662.44	2	1,319.95	2	983.77	2	649.44	2	306.97	2	3.93	2	
1/4	2,682.77	1/4	2,340.28	1/4	1,997.79	1/4	1,655.30	1/4	1,312.81	1/4	976.94	1/4	642.31	1/4	299.83	1/4	2.15	1/4	
1/2	2,675.63	1/2	2,333.14	1/2	1,990.65	1/2	1,648.17	1/2	1,305.68	1/2	970.11	1/2	635.17	1/2	292.70	1/2		1/2	
3/4	2,668.50	3/4	2,326.01	3/4	1,983.52	3/4	1,641.03	3/4	1,298.54	3/4	963.28	3/4	628.04	3/4	285.56	3/4		3/4	
3	2,661.36	3	2,318.87	3	1,976.38	3	1,633.89	3	1,291.41	3	956.46	3	620.90	3	278.43	3		3	
1/4	2,654.23	1/4	2,311.74	1/4	1,969.25	1/4	1,626.76	1/4	1,284.27	1/4	949.63	1/4	613.77	1/4	271.29	1/4		1/4	
1/2	2,647.09	1/2	2,304.60	1/2	1,962.11	1/2	1,619.62	1/2	1,277.13	1/2	942.80	1/2	606.63	1/2	264.16	1/2		1/2	
3/4	2,639.96	3/4	2,297.47	3/4	1,954.98	3/4	1,612.49	3/4	1,270.00	3/4	935.97	3/4	599.50	3/4	257.02	3/4		3/4	
4	2,632.82	4	2,290.33	4	1,947.84	4	1,605.35	4	1,262.86	4	929.14	4	592.36	4	249.89	4		4	
1/4	2,625.69	1/4	2,283.20	1/4	1,940.71	1/4	1,598.22	1/4	1,255.73	1/4	922.32	1/4	585.23	1/4	242.75	1/4		1/4	
1/2	2,618.55	1/2	2,276.06	1/2	1,933.57	1/2	1,591.08	1/2	1,248.59	1/2	915.49	1/2	578.10	1/2	235.62	1/2		1/2	
3/4	2,611.42	3/4	2,268.93	3/4	1,926.44	3/4	1,583.95	3/4	1,241.46	3/4	908.66	3/4	570.96	3/4	228.49	3/4		3/4	
5	2,604.28	5	2,261.79	5	1,919.30	5	1,576.81	5	1,234.32	5	901.83	5	563.83	5	221.35	5		5	
1/4	2,597.15	1/4	2,254.66	1/4	1,912.17	1/4	1,569.68	1/4	1,227.19	1/4	895.00	1/4	556.69	1/4	214.22	1/4		1/4	
1/2	2,590.01	1/2	2,247.52	1/2	1,905.03	1/2	1,562.54	1/2	1,220.05	1/2	888.17	1/2	549.56	1/2	207.08	1/2		1/2	
3/4	2,582.88	3/4	2,240.39	3/4	1,897.90	3/4	1,555.41	3/4	1,212.92	3/4	881.35	3/4	542.42	3/4	199.95	3/4		3/4	
6	2,575.74	6	2,233.25	6	1,890.76	6	1,548.27	6	1,205.78	6	874.52	6	535.29	6	192.81	6		6	
1/4	2,568.61	1/4	2,226.12	1/4	1,883.63	1/4	1,541.14	1/4	1,198.65	1/4	867.69	1/4	528.15	1/4	185.68	1/4		1/4	
1/2	2,561.47	1/2	2,218.98	1/2	1,876.49	1/2	1,534.00	1/2	1,191.51	1/2	860.86	1/2	521.02	1/2	178.54	1/2		1/2	
3/4	2,554.34	3/4	2,211.85	3/4	1,869.36	3/4	1,526.87	3/4	1,184.38	3/4	854.03	3/4	513.88	3/4	171.41	3/4		3/4	
7	2,547.20	7	2,204.71	7	1,862.22	7	1,519.73	7	1,177.24	7	847.19	7	506.75	7	164.27	7		7	
1/4	2,540.07	1/4	2,197.58	1/4	1,855.09	1/4	1,512.60	1/4	1,170.11	1/4	840.36	1/4	499.61	1/4	157.14	1/4		1/4	
1/2	2,532.93	1/2	2,190.44	1/2	1,847.95	1/2	1,505.46	1/2	1,162.97	1/2	833.52	1/2	492.48	1/2	150.00	1/2		1/2	
3/4	2,525.79	3/4	2,183.31	3/4	1,840.82	3/4	1,498.33	3/4	1,155.84	3/4	826.67	3/4	485.34	3/4	142.87	3/4		3/4	
8	2,518.66	8	2,176.17	8	1,833.68	8	1,491.19	8	1,148.70	8	819.83	8	478.21	8	135.73	8		8	
1/4	2,511.52	1/4	2,169.03	1/4	1,826.55	1/4	1,484.06	1/4	1,141.57	1/4	812.98	1/4	471.07	1/4	128.60	1/4		1/4	
1/2	2,504.39	1/2	2,161.90	1/2	1,819.41	1/2	1,476.92	1/2	1,134.57	1/2	805.99	1/2	463.94	1/2	121.47	1/2		1/2	
3/4	2,497.25	3/4	2,154.76	3/4	1,812.27	3/4	1,469.79	3/4	1,127.58	3/4	799.00	3/4	456.80	3/4	114.34	3/4		3/4	
9	2,490.12	9	2,147.63	9	1,805.14	9	1,462.65	9	1,120.58	9	792.00	9	449.67	9	107.21	9		9	
1/4	2,482.98	1/4	2,140.49	1/4	1,798.00	1/4	1,455.51	1/4	1,113.59	1/4	785.01	1/4	442.53	1/4	100.08	1/4		1/4	
1/2	2,475.85	1/2	2,133.36	1/2	1,790.87	1/2	1,448.38	1/2	1,106.74	1/2	777.87	1/2	435.40	1/2	92.97	1/2		1/2	
3/4	2,468.71	3/4	2,126.22	3/4	1,783.73	3/4	1,441.24	3/4	1,099.90	3/4	770.74	3/4	428.26	3/4	85.86	3/4		3/4	
10	2,461.58	10	2,119.09	10	1,776.60	10	1,434.11	10	1,093.05	10	763.60	10	421.13	10	78.75	10		10	
1/4	2,454.44	1/4	2,111.95	1/4	1,769.46	1/4	1,426.97	1/4	1,086.21	1/4	756.47	1/4	413.99	1/4	71.64	1/4		1/4	
1/2	2,447.31	1/2	2,104.82	1/2	1,762.33	1/2	1,419.84	1/2	1,079.38	1/2	749.33	1/2	406.86	1/2	64.97	1/2		1/2	
3/4	2,440.17	3/4	2,097.68	3/4	1,755.19	3/4	1,412.70	3/4	1,072.54	3/4	742.20	3/4	399.72	3/4	58.30	3/4		3/4	
11	2,433.04	11	2,090.55	11	1,748.06	11	1,405.57	11	1,065.71	11	735.06	11	392.59	11	51.63	11		11	
1/4	2,425.90	1/4	2,083.41	1/4	1,740.92	1/4	1,398.43	1/4	1,058.88	1/4	727.93	1/4	385.45	1/4	44.96	1/4		1/4	
1/2	2,418.77	1/2	2,076.28	1/2	1,733.79	1/2	1,391.30	1/2	1,052.05	1/2	720.79	1/2	378.32	1/2	39.61	1/2		1/2	
3/4	2,411.63	3/4	2,069.14	3/4	1,726.65	3/4	1,384.16	3/4	1,045.22	3/4	713.66	3/4	371.18	3/4	34.26	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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<http://www.pmacorp.net>



CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020



**BARGE "HSM 3312"**  
formerly the  
**BARGE "FMT 3312"**

**2 STBD**  
**ULLAGE TABLE**

**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,119.61	0	4,833.24	0	4,490.41	0	4,146.72	0	3,802.31	0	3,457.97	0	3,113.66
1/4		1/4		1/4		1/4	5,117.59	1/4	4,826.10	1/4	4,483.26	1/4	4,139.55	1/4	3,795.14	1/4	3,450.80	1/4	3,106.49
1/2		1/2		1/2		1/2	5,115.58	1/2	4,818.96	1/2	4,476.12	1/2	4,132.37	1/2	3,787.96	1/2	3,443.63	1/2	3,099.31
3/4		3/4		3/4		3/4	5,113.56	3/4	4,811.81	3/4	4,468.98	3/4	4,125.19	3/4	3,780.79	3/4	3,436.45	3/4	3,092.14
1		1		1		1	5,111.55	1	4,804.67	1	4,461.84	1	4,118.02	1	3,773.61	1	3,429.28	1	3,084.97
1/4		1/4		1/4		1/4	5,108.34	1/4	4,797.53	1/4	4,454.69	1/4	4,110.84	1/4	3,766.43	1/4	3,422.11	1/4	3,077.79
1/2		1/2		1/2		1/2	5,105.13	1/2	4,790.39	1/2	4,447.55	1/2	4,103.67	1/2	3,759.26	1/2	3,414.93	1/2	3,070.62
3/4		3/4		3/4		3/4	5,101.92	3/4	4,783.24	3/4	4,440.41	3/4	4,096.49	3/4	3,752.08	3/4	3,407.76	3/4	3,063.45
2		2		2		2	5,098.71	2	4,776.10	2	4,433.27	2	4,089.32	2	3,744.91	2	3,400.59	2	3,056.28
1/4		1/4		1/4		1/4	5,094.30	1/4	4,768.96	1/4	4,426.12	1/4	4,082.14	1/4	3,737.73	1/4	3,393.41	1/4	3,049.10
1/2		1/2		1/2		1/2	5,089.89	1/2	4,761.82	1/2	4,418.98	1/2	4,074.97	1/2	3,730.56	1/2	3,386.24	1/2	3,041.93
3/4		3/4		3/4		3/4	5,085.49	3/4	4,754.68	3/4	4,411.84	3/4	4,067.79	3/4	3,723.38	3/4	3,379.07	3/4	3,034.75
3		3		3		3	5,081.08	3	4,747.53	3	4,404.70	3	4,060.62	3	3,716.21	3	3,371.89	3	3,027.57
1/4		1/4		1/4		1/4	5,075.48	1/4	4,740.39	1/4	4,397.56	1/4	4,053.44	1/4	3,709.04	1/4	3,364.72	1/4	3,020.40
1/2		1/2		1/2		1/2	5,069.88	1/2	4,733.25	1/2	4,390.41	1/2	4,046.27	1/2	3,701.86	1/2	3,357.55	1/2	3,013.22
3/4		3/4		3/4		3/4	5,064.27	3/4	4,726.11	3/4	4,383.27	3/4	4,039.09	3/4	3,694.69	3/4	3,350.37	3/4	3,006.05
4		4		4		4	5,058.67	4	4,718.96	4	4,376.13	4	4,031.92	4	3,687.51	4	3,343.20	4	2,998.87
1/4		1/4		1/4		1/4	5,052.06	1/4	4,711.82	1/4	4,368.99	1/4	4,024.74	1/4	3,680.34	1/4	3,336.03	1/4	2,991.70
1/2		1/2		1/2		1/2	5,045.44	1/2	4,704.68	1/2	4,361.84	1/2	4,017.57	1/2	3,673.17	1/2	3,328.85	1/2	2,984.52
3/4		3/4		3/4		3/4	5,038.83	3/4	4,697.54	3/4	4,354.70	3/4	4,010.39	3/4	3,666.00	3/4	3,321.68	3/4	2,977.35
5		5		5		5	5,032.21	5	4,690.39	5	4,347.56	5	4,003.22	5	3,658.82	5	3,314.51	5	2,970.17
1/4		1/4		1/4		1/4	5,025.16	1/4	4,683.25	1/4	4,340.40	1/4	3,996.04	1/4	3,651.65	1/4	3,307.34	1/4	2,963.00
1/2		1/2		1/2		1/2	5,018.10	1/2	4,676.11	1/2	4,333.24	1/2	3,988.87	1/2	3,644.48	1/2	3,300.16	1/2	2,955.82
3/4		3/4		3/4		3/4	5,011.05	3/4	4,668.97	3/4	4,326.08	3/4	3,981.69	3/4	3,637.30	3/4	3,292.99	3/4	2,948.65
6		6		6		6	5,003.99	6	4,661.82	6	4,318.93	6	3,974.52	6	3,630.13	6	3,285.82	6	2,941.47
1/4		1/4		1/4		1/4	4,996.90	1/4	4,654.68	1/4	4,311.75	1/4	3,967.34	1/4	3,622.96	1/4	3,278.64	1/4	2,934.30
1/2		1/2		1/2		1/2	4,989.81	1/2	4,647.54	1/2	4,304.57	1/2	3,960.17	1/2	3,615.78	1/2	3,271.47	1/2	2,927.12
3/4		3/4		3/4		3/4	4,982.72	3/4	4,640.40	3/4	4,297.40	3/4	3,952.99	3/4	3,608.61	3/4	3,264.30	3/4	2,919.95
7		7		7		7	4,975.63	7	4,633.25	7	4,290.22	7	3,945.81	7	3,601.44	7	3,257.12	7	2,912.77
1/4		1/4		1/4		1/4	4,968.54	1/4	4,626.11	1/4	4,283.05	1/4	3,938.64	1/4	3,594.26	1/4	3,249.95	1/4	2,905.60
1/2		1/2		1/2		1/2	4,961.44	1/2	4,618.97	1/2	4,275.87	1/2	3,931.46	1/2	3,587.09	1/2	3,242.78	1/2	2,898.42
3/4		3/4		3/4		3/4	4,954.34	3/4	4,611.83	3/4	4,268.70	3/4	3,924.29	3/4	3,579.92	3/4	3,235.60	3/4	2,891.25
8		8		8		8	4,947.25	8	4,604.68	8	4,261.52	8	3,917.11	8	3,572.74	8	3,228.43	8	2,884.07
1/4		1/4		1/4		1/4	4,940.15	1/4	4,597.54	1/4	4,254.35	1/4	3,909.94	1/4	3,565.57	1/4	3,221.26	1/4	2,876.90
1/2		1/2		1/2		1/2	4,933.05	1/2	4,590.40	1/2	4,247.17	1/2	3,902.76	1/2	3,558.40	1/2	3,214.08	1/2	2,869.72
3/4		3/4		3/4		3/4	4,925.96	3/4	4,583.26	3/4	4,240.00	3/4	3,895.59	3/4	3,551.22	3/4	3,206.91	3/4	2,862.55
9		9		9		9	4,918.86	9	4,576.12	9	4,232.82	9	3,888.41	9	3,544.05	9	3,199.74	9	2,855.37
1/4		1/4		1/4		1/4	4,911.74	1/4	4,568.97	1/4	4,225.65	1/4	3,881.24	1/4	3,536.88	1/4	3,192.56	1/4	2,848.19
1/2		1/2		1/2		1/2	4,904.62	1/2	4,561.83	1/2	4,218.47	1/2	3,874.06	1/2	3,529.70	1/2	3,185.39	1/2	2,841.02
3/4		3/4		3/4		3/4	4,897.50	3/4	4,554.69	3/4	4,211.30	3/4	3,866.89	3/4	3,522.53	3/4	3,178.22	3/4	2,833.84
10		10		10		10	4,890.38	10	4,547.55	10	4,204.12	10	3,859.71	10	3,515.36	10	3,171.04	10	2,826.67
1/4		1/4		1/4		1/4	4,883.24	1/4	4,540.40	1/4	4,196.95	1/4	3,852.54	1/4	3,508.18	1/4	3,163.87	1/4	2,819.49
1/2		1/2		1/2		1/2	4,876.10	1/2	4,533.26	1/2	4,189.77	1/2	3,845.36	1/2	3,501.01	1/2	3,156.70	1/2	2,812.32
3/4		3/4		3/4		3/4	4,868.95	3/4	4,526.12	3/4	4,182.60	3/4	3,838.19	3/4	3,493.84	3/4	3,149.52	3/4	2,805.14
11		11		11	5,123.34	11	4,861.81	11	4,518.98	11	4,175.42	11	3,831.01	11	3,486.67	11	3,142.35	11	2,797.97
1/4		1/4		1/4	5,122.41	1/4	4,854.67	1/4	4,511.83	1/4	4,168.25	1/4	3,823.84	1/4	3,479.49	1/4	3,135.18	1/4	2,790.79
1/2		1/2		1/2	5,121.47	1/2	4,847.53	1/2	4,504.69	1/2	4,161.07	1/2	3,816.66	1/2	3,472.32	1/2	3,128.01	1/2	2,783.62
3/4		3/4		3/4	5,120.54	3/4	4,840.38	3/4	4,497.55	3/4	4,153.90	3/4	3,809.49	3/4	3,465.15	3/4	3,120.83	3/4	2,776.44

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BAREG "HSM 3312"

formerly the  
BARGE "FMT 3312"

**2 STBD**  
**ULLAGE TABLE**  
**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,769.27	0	2,424.86	0	2,080.45	0	1,736.04	0	1,391.63	0	1,047.33	0	703.31	0	358.92	0	23.69	0	
1/4	2,762.09	1/4	2,417.68	1/4	2,073.27	1/4	1,728.86	1/4	1,384.45	1/4	1,040.17	1/4	696.14	1/4	351.74	1/4	20.10	1/4	
1/2	2,754.92	1/2	2,410.51	1/2	2,066.10	1/2	1,721.69	1/2	1,377.28	1/2	1,033.00	1/2	688.96	1/2	344.57	1/2	16.51	1/2	
3/4	2,747.74	3/4	2,403.33	3/4	2,058.92	3/4	1,714.51	3/4	1,370.10	3/4	1,025.84	3/4	681.79	3/4	337.39	3/4	12.93	3/4	
1	2,740.57	1	2,396.16	1	2,051.75	1	1,707.34	1	1,362.93	1	1,018.68	1	674.61	1	330.22	1	9.34	1	
1/4	2,733.39	1/4	2,388.98	1/4	2,044.57	1/4	1,700.16	1/4	1,355.75	1/4	1,011.52	1/4	667.44	1/4	323.04	1/4	7.55	1/4	
1/2	2,726.22	1/2	2,381.81	1/2	2,037.40	1/2	1,692.99	1/2	1,348.58	1/2	1,004.36	1/2	660.26	1/2	315.87	1/2	5.75	1/2	
3/4	2,719.04	3/4	2,374.63	3/4	2,030.22	3/4	1,685.81	3/4	1,341.40	3/4	997.20	3/4	653.09	3/4	308.69	3/4	3.96	3/4	
2	2,711.87	2	2,367.46	2	2,023.05	2	1,678.64	2	1,334.23	2	990.04	2	645.91	2	301.52	2	2.16	2	
1/4	2,704.69	1/4	2,360.28	1/4	2,015.87	1/4	1,671.46	1/4	1,327.05	1/4	982.88	1/4	638.74	1/4	294.34	1/4		1/4	
1/2	2,697.52	1/2	2,353.11	1/2	2,008.70	1/2	1,664.29	1/2	1,319.88	1/2	975.72	1/2	631.56	1/2	287.17	1/2		1/2	
3/4	2,690.34	3/4	2,345.93	3/4	2,001.52	3/4	1,657.11	3/4	1,312.70	3/4	968.56	3/4	624.39	3/4	279.99	3/4		3/4	
3	2,683.17	3	2,338.76	3	1,994.35	3	1,649.94	3	1,305.53	3	961.39	3	617.21	3	272.82	3		3	
1/4	2,675.99	1/4	2,331.58	1/4	1,987.17	1/4	1,642.76	1/4	1,298.35	1/4	954.23	1/4	610.04	1/4	265.64	1/4		1/4	
1/2	2,668.81	1/2	2,324.41	1/2	1,980.00	1/2	1,635.59	1/2	1,291.18	1/2	947.07	1/2	602.86	1/2	258.47	1/2		1/2	
3/4	2,661.64	3/4	2,317.23	3/4	1,972.82	3/4	1,628.41	3/4	1,284.00	3/4	939.91	3/4	595.69	3/4	251.29	3/4		3/4	
4	2,654.46	4	2,310.05	4	1,965.65	4	1,621.24	4	1,276.83	4	932.75	4	588.51	4	244.12	4		4	
1/4	2,647.29	1/4	2,302.88	1/4	1,958.47	1/4	1,614.06	1/4	1,269.65	1/4	925.59	1/4	581.34	1/4	236.94	1/4		1/4	
1/2	2,640.11	1/2	2,295.70	1/2	1,951.29	1/2	1,606.89	1/2	1,262.48	1/2	918.43	1/2	574.16	1/2	229.77	1/2		1/2	
3/4	2,632.94	3/4	2,288.53	3/4	1,944.12	3/4	1,599.71	3/4	1,255.30	3/4	911.27	3/4	566.99	3/4	222.59	3/4		3/4	
5	2,625.76	5	2,281.35	5	1,936.94	5	1,592.53	5	1,248.13	5	904.11	5	559.81	5	215.42	5		5	
1/4	2,618.59	1/4	2,274.18	1/4	1,929.77	1/4	1,585.36	1/4	1,240.95	1/4	896.95	1/4	552.64	1/4	208.24	1/4		1/4	
1/2	2,611.41	1/2	2,267.00	1/2	1,922.59	1/2	1,578.18	1/2	1,233.77	1/2	889.79	1/2	545.46	1/2	201.07	1/2		1/2	
3/4	2,604.24	3/4	2,259.83	3/4	1,915.42	3/4	1,571.01	3/4	1,226.60	3/4	882.62	3/4	538.29	3/4	193.89	3/4		3/4	
6	2,597.06	6	2,252.65	6	1,908.24	6	1,563.83	6	1,219.42	6	875.46	6	531.12	6	186.72	6		6	
1/4	2,589.89	1/4	2,245.48	1/4	1,901.07	1/4	1,556.66	1/4	1,212.25	1/4	868.30	1/4	523.94	1/4	179.55	1/4		1/4	
1/2	2,582.71	1/2	2,238.30	1/2	1,893.89	1/2	1,549.48	1/2	1,205.07	1/2	861.13	1/2	516.77	1/2	172.37	1/2		1/2	
3/4	2,575.54	3/4	2,231.13	3/4	1,886.72	3/4	1,542.31	3/4	1,197.90	3/4	853.97	3/4	509.59	3/4	165.20	3/4		3/4	
7	2,568.36	7	2,223.95	7	1,879.54	7	1,535.13	7	1,190.72	7	846.80	7	502.42	7	158.02	7		7	
1/4	2,561.19	1/4	2,216.78	1/4	1,872.37	1/4	1,527.96	1/4	1,183.55	1/4	839.63	1/4	495.24	1/4	150.85	1/4		1/4	
1/2	2,554.01	1/2	2,209.60	1/2	1,865.19	1/2	1,520.78	1/2	1,176.37	1/2	832.46	1/2	488.07	1/2	143.67	1/2		1/2	
3/4	2,546.84	3/4	2,202.43	3/4	1,858.02	3/4	1,513.61	3/4	1,169.20	3/4	825.28	3/4	480.89	3/4	136.50	3/4		3/4	
8	2,539.66	8	2,195.25	8	1,850.84	8	1,506.43	8	1,162.02	8	818.11	8	473.72	8	129.32	8		8	
1/4	2,532.49	1/4	2,188.08	1/4	1,843.67	1/4	1,499.26	1/4	1,154.85	1/4	810.94	1/4	466.54	1/4	122.15	1/4		1/4	
1/2	2,525.31	1/2	2,180.90	1/2	1,836.49	1/2	1,492.08	1/2	1,147.67	1/2	803.76	1/2	459.37	1/2	114.99	1/2		1/2	
3/4	2,518.14	3/4	2,173.73	3/4	1,829.32	3/4	1,484.91	3/4	1,140.50	3/4	796.59	3/4	452.19	3/4	107.82	3/4		3/4	
9	2,510.96	9	2,166.55	9	1,822.14	9	1,477.73	9	1,133.32	9	789.41	9	445.02	9	100.65	9		9	
1/4	2,503.79	1/4	2,159.38	1/4	1,814.97	1/4	1,470.56	1/4	1,126.15	1/4	782.24	1/4	437.84	1/4	93.50	1/4		1/4	
1/2	2,496.61	1/2	2,152.20	1/2	1,807.79	1/2	1,463.38	1/2	1,118.98	1/2	775.06	1/2	430.67	1/2	86.34	1/2		1/2	
3/4	2,489.43	3/4	2,145.03	3/4	1,800.62	3/4	1,456.21	3/4	1,111.81	3/4	767.89	3/4	423.49	3/4	79.19	3/4		3/4	
10	2,482.26	10	2,137.85	10	1,793.44	10	1,449.03	10	1,104.63	10	760.71	10	416.32	10	72.04	10		10	
1/4	2,475.08	1/4	2,130.67	1/4	1,786.27	1/4	1,441.86	1/4	1,097.47	1/4	753.54	1/4	409.14	1/4	65.33	1/4		1/4	
1/2	2,467.91	1/2	2,123.50	1/2	1,779.09	1/2	1,434.68	1/2	1,090.30	1/2	746.36	1/2	401.97	1/2	58.63	1/2		1/2	
3/4	2,460.73	3/4	2,116.32	3/4	1,771.91	3/4	1,427.51	3/4	1,083.14	3/4	739.19	3/4	394.79	3/4	51.92	3/4		3/4	
11	2,453.56	11	2,109.15	11	1,764.74	11	1,420.33	11	1,075.97	11	732.01	11	387.62	11	45.21	11		11	
1/4	2,446.38	1/4	2,101.97	1/4	1,757.56	1/4	1,413.15	1/4	1,068.81	1/4	724.84	1/4	380.44	1/4	39.83	1/4		1/4	
1/2	2,439.21	1/2	2,094.80	1/2	1,750.39	1/2	1,405.98	1/2	1,061.65	1/2	717.66	1/2	373.27	1/2	34.45	1/2		1/2	
3/4	2,432.03	3/4	2,087.62	3/4	1,743.21	3/4	1,398.80	3/4	1,054.49	3/4	710.49	3/4	366.09	3/4	29.07	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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Pearland, Texas 77588

<http://www.pmacorp.net>



CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020



# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

## 3 PORT

## ULLAGE TABLE

### 10" HATCH

### GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,393.51	0	4,227.50	0	4,018.80	0	3,809.63	0	3,600.02	0	3,390.93	0	3,080.77
1/4		1/4		1/4		1/4	4,392.44	1/4	4,223.15	1/4	4,014.46	1/4	3,805.27	1/4	3,595.66	1/4	3,386.58	1/4	3,073.67
1/2		1/2		1/2		1/2	4,390.73	1/2	4,218.80	1/2	4,010.11	1/2	3,800.90	1/2	3,591.29	1/2	3,382.24	1/2	3,066.56
3/4		3/4		3/4		3/4	4,389.03	3/4	4,214.46	3/4	4,005.76	3/4	3,796.53	3/4	3,586.92	3/4	3,377.90	3/4	3,059.45
1		1		1		1	4,217.32	1	4,210.11	1	4,001.41	1	3,792.17	1	3,582.56	1	3,373.56	1	3,052.34
1/4		1/4		1/4		1/4	4,385.61	1/4	4,205.76	1/4	3,997.07	1/4	3,787.80	1/4	3,578.19	1/4	3,369.21	1/4	3,045.24
1/2		1/2		1/2		1/2	4,383.91	1/2	4,201.41	1/2	3,992.72	1/2	3,783.43	1/2	3,573.82	1/2	3,364.88	1/2	3,038.12
3/4		3/4		3/4		3/4	4,382.20	3/4	4,197.06	3/4	3,988.37	3/4	3,779.07	3/4	3,569.46	3/4	3,360.55	3/4	3,031.01
2		2		2		2	4,380.50	2	4,192.72	2	3,984.02	2	3,774.70	2	3,565.09	2	3,356.22	2	3,023.89
1/4		1/4		1/4		1/4	4,378.79	1/4	4,188.37	1/4	3,979.67	1/4	3,770.33	1/4	3,560.72	1/4	3,351.88	1/4	3,016.78
1/2		1/2		1/2		1/2	4,376.82	1/2	4,184.02	1/2	3,975.33	1/2	3,765.97	1/2	3,556.35	1/2	3,346.17	1/2	3,009.65
3/4		3/4		3/4		3/4	4,374.84	3/4	4,179.67	3/4	3,970.98	3/4	3,761.60	3/4	3,551.99	3/4	3,340.46	3/4	3,002.53
3		3		3		3	4,372.87	3	4,175.33	3	3,966.63	3	3,757.23	3	3,547.62	3	3,334.75	3	2,995.41
1/4		1/4		1/4		1/4	4,370.89	1/4	4,170.98	1/4	3,962.28	1/4	3,752.87	1/4	3,543.25	1/4	3,329.03	1/4	2,988.28
1/2		1/2		1/2		1/2	4,368.06	1/2	4,166.63	1/2	3,957.94	1/2	3,748.50	1/2	3,538.89	1/2	3,321.94	1/2	2,981.16
3/4		3/4		3/4		3/4	4,365.22	3/4	4,162.28	3/4	3,953.59	3/4	3,744.13	3/4	3,534.54	3/4	3,314.85	3/4	2,974.04
4		4		4		4	4,362.39	4	4,157.93	4	3,949.24	4	3,739.76	4	3,530.18	4	3,307.76	4	2,966.91
1/4		1/4		1/4		1/4	4,359.55	1/4	4,153.59	1/4	3,944.89	1/4	3,735.40	1/4	3,525.82	1/4	3,300.67	1/4	2,959.79
1/2		1/2		1/2		1/2	4,355.71	1/2	4,149.24	1/2	3,940.54	1/2	3,731.03	1/2	3,521.47	1/2	3,293.57	1/2	2,952.67
3/4		3/4		3/4		3/4	4,351.87	3/4	4,144.89	3/4	3,936.20	3/4	3,726.66	3/4	3,517.12	3/4	3,286.48	3/4	2,945.54
5		5		5		5	4,348.03	5	4,140.54	5	3,931.85	5	3,722.30	5	3,512.76	5	3,279.39	5	2,938.42
1/4		1/4		1/4		1/4	4,344.19	1/4	4,136.20	1/4	3,927.50	1/4	3,717.93	1/4	3,508.41	1/4	3,272.30	1/4	2,931.30
1/2		1/2		1/2		1/2	4,339.91	1/2	4,131.85	1/2	3,923.14	1/2	3,713.56	1/2	3,504.06	1/2	3,265.21	1/2	2,924.18
3/4		3/4		3/4		3/4	4,335.63	3/4	4,127.50	3/4	3,918.79	3/4	3,709.20	3/4	3,499.71	3/4	3,258.12	3/4	2,917.06
6		6		6		6	4,331.35	6	4,123.15	6	3,914.43	6	3,704.83	6	3,495.36	6	3,251.03	6	2,909.94
1/4		1/4		1/4		1/4	4,327.07	1/4	4,118.80	1/4	3,910.07	1/4	3,700.46	1/4	3,491.01	1/4	3,243.94	1/4	2,902.82
1/2		1/2		1/2		1/2	4,322.76	1/2	4,114.46	1/2	3,905.71	1/2	3,696.10	1/2	3,486.66	1/2	3,236.85	1/2	2,895.71
3/4		3/4		3/4		3/4	4,318.45	3/4	4,110.11	3/4	3,901.34	3/4	3,691.73	3/4	3,482.31	3/4	3,229.76	3/4	2,888.60
7		7		7		7	4,314.14	7	4,105.76	7	3,896.97	7	3,687.36	7	3,477.96	7	3,222.67	7	2,881.49
1/4		1/4		1/4		1/4	4,309.83	1/4	4,101.41	1/4	3,892.61	1/4	3,682.99	1/4	3,473.60	1/4	3,215.57	1/4	2,874.38
1/2		1/2		1/2		1/2	4,305.51	1/2	4,097.07	1/2	3,888.24	1/2	3,678.63	1/2	3,469.25	1/2	3,208.48	1/2	2,867.27
3/4		3/4		3/4		3/4	4,301.19	3/4	4,092.72	3/4	3,883.87	3/4	3,674.26	3/4	3,464.90	3/4	3,201.39	3/4	2,860.15
8		8		8		8	4,296.87	8	4,088.37	8	3,879.51	8	3,669.89	8	3,460.55	8	3,194.30	8	2,853.04
1/4		1/4		1/4		1/4	4,292.55	1/4	4,084.02	1/4	3,875.14	1/4	3,665.53	1/4	3,456.20	1/4	3,187.21	1/4	2,845.93
1/2		1/2		1/2		1/2	4,288.23	1/2	4,079.67	1/2	3,870.77	1/2	3,661.16	1/2	3,451.85	1/2	3,180.12	1/2	2,838.82
3/4		3/4		3/4		3/4	4,283.91	3/4	4,075.33	3/4	3,866.40	3/4	3,656.79	3/4	3,447.50	3/4	3,173.03	3/4	2,831.71
9		9		9		9	4,279.59	9	4,070.98	9	3,862.04	9	3,652.43	9	3,443.15	9	3,165.94	9	2,824.60
1/4		1/4		1/4		1/4	4,275.27	1/4	4,066.63	1/4	3,857.67	1/4	3,648.06	1/4	3,438.80	1/4	3,158.85	1/4	2,817.49
1/2		1/2		1/2		1/2	4,270.94	1/2	4,062.28	1/2	3,853.30	1/2	3,643.69	1/2	3,434.44	1/2	3,151.76	1/2	2,810.37
3/4		3/4		3/4		3/4	4,266.60	3/4	4,057.93	3/4	3,848.94	3/4	3,639.33	3/4	3,430.09	3/4	3,144.67	3/4	2,803.26
10		10		10		10	4,262.27	10	4,053.59	10	3,844.57	10	3,634.96	10	3,425.74	10	3,137.58	10	2,796.15
1/4		1/4		1/4		1/4	4,257.93	1/4	4,049.24	1/4	3,840.20	1/4	3,630.59	1/4	3,421.39	1/4	3,130.49	1/4	2,789.04
1/2		1/2		1/2		1/2	4,253.59	1/2	4,044.89	1/2	3,835.84	1/2	3,626.23	1/2	3,417.04	1/2	3,123.39	1/2	2,781.93
3/4		3/4		3/4		3/4	4,249.24	3/4	4,040.54	3/4	3,831.47	3/4	3,621.86	3/4	3,412.69	3/4	3,116.29	3/4	2,774.82
11		11		11		11	4,244.89	11	4,036.20	11	3,827.10	11	3,617.49	11	3,408.34	11	3,109.20	11	2,767.70
1/4		1/4		1/4	4,396.74	1/4	4,240.54	1/4	4,031.85	1/4	3,822.74	1/4	3,613.12	1/4	3,403.99	1/4	3,102.10	1/4	2,760.59
1/2		1/2		1/2	4,395.66	1/2	4,236.19	1/2	4,027.50	1/2	3,818.37	1/2	3,608.76	1/2	3,399.64	1/2	3,094.99	1/2	2,753.48
3/4		3/4		3/4	4,394.59	3/4	4,231.85	3/4	4,023.15	3/4	3,814.00	3/4	3,604.39	3/4	3,395.28	3/4	3,087.88	3/4	2,746.37

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

## 3 PORT

## ULLAGE TABLE

## 10" HATCH

## GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,739.26	0	2,397.89	0	2,056.49	0	1,715.09	0	1,373.69	0	1,035.97	0	705.03	0	363.55	0	28.86	0	
1/4	2,732.15	1/4	2,390.78	1/4	2,049.38	1/4	1,707.98	1/4	1,366.58	1/4	1,029.17	1/4	697.92	1/4	356.43	1/4	23.52	1/4	
1/2	2,725.03	1/2	2,383.67	1/2	2,042.27	1/2	1,700.87	1/2	1,359.47	1/2	1,022.36	1/2	690.80	1/2	349.31	1/2	19.96	1/2	
3/4	2,717.92	3/4	2,376.56	3/4	2,035.16	3/4	1,693.76	3/4	1,352.36	3/4	1,015.56	3/4	683.69	3/4	342.18	3/4	16.39	3/4	
1	2,710.81	1	2,369.44	1	2,028.04	1	1,686.64	1	1,345.24	1	1,008.76	1	676.58	1	335.06	1	12.83	1	
1/4	2,703.70	1/4	2,362.33	1/4	2,020.93	1/4	1,679.53	1/4	1,338.13	1/4	1,001.95	1/4	669.46	1/4	327.93	1/4	9.27	1/4	
1/2	2,696.59	1/2	2,355.22	1/2	2,013.82	1/2	1,672.42	1/2	1,331.02	1/2	995.15	1/2	662.35	1/2	320.81	1/2	7.49	1/2	
3/4	2,689.48	3/4	2,348.11	3/4	2,006.71	3/4	1,665.31	3/4	1,323.91	3/4	988.35	3/4	655.24	3/4	313.68	3/4	5.71	3/4	
2	2,682.36	2	2,340.99	2	1,999.59	2	1,658.19	2	1,316.79	2	981.54	2	648.12	2	306.56	2	3.92	2	
1/4	2,675.25	1/4	2,333.88	1/4	1,992.48	1/4	1,651.08	1/4	1,309.68	1/4	974.74	1/4	641.01	1/4	299.43	1/4	2.15	1/4	
1/2	2,668.14	1/2	2,326.77	1/2	1,985.37	1/2	1,643.97	1/2	1,302.57	1/2	967.94	1/2	633.89	1/2	292.30	1/2		1/2	
3/4	2,661.03	3/4	2,319.66	3/4	1,978.26	3/4	1,636.86	3/4	1,295.46	3/4	961.13	3/4	626.78	3/4	285.18	3/4		3/4	
3	2,653.92	3	2,312.54	3	1,971.14	3	1,629.74	3	1,288.34	3	954.33	3	619.67	3	278.05	3		3	
1/4	2,646.81	1/4	2,305.43	1/4	1,964.03	1/4	1,622.63	1/4	1,281.23	1/4	947.53	1/4	612.55	1/4	270.93	1/4		1/4	
1/2	2,639.70	1/2	2,298.32	1/2	1,956.92	1/2	1,615.52	1/2	1,274.12	1/2	940.72	1/2	605.44	1/2	263.80	1/2		1/2	
3/4	2,632.58	3/4	2,291.21	3/4	1,949.81	3/4	1,608.41	3/4	1,267.01	3/4	933.92	3/4	598.33	3/4	256.68	3/4		3/4	
4	2,625.47	4	2,284.09	4	1,942.69	4	1,601.29	4	1,259.89	4	927.12	4	591.21	4	249.55	4		4	
1/4	2,618.36	1/4	2,276.98	1/4	1,935.58	1/4	1,594.18	1/4	1,252.78	1/4	920.31	1/4	584.10	1/4	242.43	1/4		1/4	
1/2	2,611.25	1/2	2,269.87	1/2	1,928.47	1/2	1,587.07	1/2	1,245.67	1/2	913.51	1/2	576.98	1/2	235.30	1/2		1/2	
3/4	2,604.14	3/4	2,262.76	3/4	1,921.36	3/4	1,579.96	3/4	1,238.56	3/4	906.71	3/4	569.87	3/4	228.18	3/4		3/4	
5	2,597.03	5	2,255.64	5	1,914.24	5	1,572.84	5	1,231.44	5	899.90	5	562.76	5	221.05	5		5	
1/4	2,589.91	1/4	2,248.53	1/4	1,907.13	1/4	1,565.73	1/4	1,224.33	1/4	893.10	1/4	555.64	1/4	213.92	1/4		1/4	
1/2	2,582.80	1/2	2,241.42	1/2	1,900.02	1/2	1,558.62	1/2	1,217.22	1/2	886.30	1/2	548.53	1/2	206.80	1/2		1/2	
3/4	2,575.69	3/4	2,234.31	3/4	1,892.91	3/4	1,551.51	3/4	1,210.11	3/4	879.50	3/4	541.41	3/4	199.67	3/4		3/4	
6	2,568.58	6	2,227.19	6	1,885.79	6	1,544.39	6	1,202.99	6	872.69	6	534.30	6	192.55	6		6	
1/4	2,561.47	1/4	2,220.08	1/4	1,878.68	1/4	1,537.28	1/4	1,195.88	1/4	865.89	1/4	527.19	1/4	185.42	1/4		1/4	
1/2	2,554.36	1/2	2,212.97	1/2	1,871.57	1/2	1,530.17	1/2	1,188.77	1/2	859.08	1/2	520.07	1/2	178.30	1/2		1/2	
3/4	2,547.24	3/4	2,205.86	3/4	1,864.46	3/4	1,523.06	3/4	1,181.66	3/4	852.28	3/4	512.96	3/4	171.17	3/4		3/4	
7	2,540.13	7	2,198.74	7	1,857.34	7	1,515.94	7	1,174.54	7	845.47	7	505.85	7	164.05	7		7	
1/4	2,533.02	1/4	2,191.63	1/4	1,850.23	1/4	1,508.83	1/4	1,167.43	1/4	838.66	1/4	498.73	1/4	156.92	1/4		1/4	
1/2	2,525.91	1/2	2,184.52	1/2	1,843.12	1/2	1,501.72	1/2	1,160.32	1/2	831.81	1/2	491.62	1/2	149.80	1/2		1/2	
3/4	2,518.80	3/4	2,177.41	3/4	1,836.01	3/4	1,494.61	3/4	1,153.21	3/4	824.97	3/4	484.50	3/4	142.67	3/4		3/4	
8	2,511.69	8	2,170.29	8	1,828.89	8	1,487.49	8	1,146.09	8	818.12	8	477.39	8	135.55	8		8	
1/4	2,504.57	1/4	2,163.18	1/4	1,821.78	1/4	1,480.38	1/4	1,138.98	1/4	811.27	1/4	470.28	1/4	128.42	1/4		1/4	
1/2	2,497.46	1/2	2,156.07	1/2	1,814.67	1/2	1,473.27	1/2	1,131.88	1/2	804.28	1/2	463.16	1/2	121.30	1/2		1/2	
3/4	2,490.35	3/4	2,148.96	3/4	1,807.56	3/4	1,466.16	3/4	1,124.77	3/4	797.28	3/4	456.05	3/4	114.18	3/4		3/4	
9	2,483.24	9	2,141.84	9	1,800.44	9	1,459.04	9	1,117.66	9	790.28	9	448.94	9	107.06	9		9	
1/4	2,476.13	1/4	2,134.73	1/4	1,793.33	1/4	1,451.93	1/4	1,110.55	1/4	783.28	1/4	441.82	1/4	99.94	1/4		1/4	
1/2	2,469.02	1/2	2,127.62	1/2	1,786.22	1/2	1,444.82	1/2	1,103.44	1/2	776.17	1/2	434.71	1/2	92.84	1/2		1/2	
3/4	2,461.91	3/4	2,120.51	3/4	1,779.11	3/4	1,437.71	3/4	1,096.33	3/4	769.06	3/4	427.59	3/4	85.74	3/4		3/4	
10	2,454.79	10	2,113.39	10	1,771.99	10	1,430.59	10	1,090.45	10	761.94	10	420.48	10	78.64	10		10	
1/4	2,447.68	1/4	2,106.28	1/4	1,764.88	1/4	1,423.48	1/4	1,083.34	1/4	754.83	1/4	413.37	1/4	71.54	1/4		1/4	
1/2	2,440.57	1/2	2,099.17	1/2	1,757.77	1/2	1,416.37	1/2	1,076.23	1/2	747.72	1/2	406.25	1/2	64.48	1/2		1/2	
3/4	2,433.46	3/4	2,092.06	3/4	1,750.66	3/4	1,409.26	3/4	1,069.12	3/4	740.60	3/4	399.14	3/4	57.42	3/4		3/4	
11	2,426.34	11	2,084.94	11	1,743.54	11	1,402.14	11	1,062.01	11	733.49	11	392.03	11	50.36	11		11	
1/4	2,419.23	1/4	2,077.83	1/4	1,736.43	1/4	1,395.03	1/4	1,054.90	1/4	726.37	1/4	384.91	1/4	43.30	1/4		1/4	
1/2	2,412.12	1/2	2,070.72	1/2	1,729.32	1/2	1,387.92	1/2	1,047.79	1/2	719.26	1/2	377.79	1/2	36.24	1/2		1/2	
3/4	2,405.01	3/4	2,063.61	3/4	1,722.21	3/4	1,380.81	3/4	1,040.68	3/4	712.15	3/4	370.67	3/4	29.18	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 07/2020

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>







# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

## 3 STBD

## ULLAGE TABLE

### 10" HATCH

### GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,408.91	0	4,239.57	0	4,030.83	0	3,821.58	0	3,611.92	0	3,402.26	0	3,089.48
1/4		1/4		1/4		1/4	4,407.20	1/4	4,235.22	1/4	4,026.48	1/4	3,817.22	1/4	3,607.56	1/4	3,397.91	1/4	3,082.37
1/2		1/2		1/2		1/2	4,405.49	1/2	4,230.88	1/2	4,022.13	1/2	3,812.85	1/2	3,603.19	1/2	3,393.56	1/2	3,075.27
3/4		3/4		3/4		3/4	4,403.79	3/4	4,226.53	3/4	4,017.78	3/4	3,808.48	3/4	3,598.82	3/4	3,389.21	3/4	3,068.16
1		1		1		1	4,402.08	1	4,222.18	1	4,013.43	1	3,804.11	1	3,594.45	1	3,384.86	1	3,061.06
1/4		1/4		1/4		1/4	4,400.38	1/4	4,217.83	1/4	4,009.08	1/4	3,799.74	1/4	3,590.08	1/4	3,380.53	1/4	3,053.96
1/2		1/2		1/2		1/2	4,398.67	1/2	4,213.48	1/2	4,004.73	1/2	3,795.38	1/2	3,585.72	1/2	3,376.20	1/2	3,046.85
3/4		3/4		3/4		3/4	4,396.96	3/4	4,209.13	3/4	4,000.38	3/4	3,791.01	3/4	3,581.35	3/4	3,371.87	3/4	3,039.75
2		2		2		2	4,395.26	2	4,204.78	2	3,996.03	2	3,786.64	2	3,576.98	2	3,367.53	2	3,032.64
1/4		1/4		1/4		1/4	4,393.28	1/4	4,200.43	1/4	3,991.69	1/4	3,782.27	1/4	3,572.61	1/4	3,363.17	1/4	3,025.54
1/2		1/2		1/2		1/2	4,391.31	1/2	4,196.08	1/2	3,987.34	1/2	3,777.90	1/2	3,568.24	1/2	3,358.80	1/2	3,018.44
3/4		3/4		3/4		3/4	4,389.33	3/4	4,191.74	3/4	3,982.99	3/4	3,773.54	3/4	3,563.88	3/4	3,354.41	3/4	3,011.33
3		3		3		3	4,387.36	3	4,187.39	3	3,978.64	3	3,769.17	3	3,559.51	3	3,344.70	3	3,004.23
1/4		1/4		1/4		1/4	4,384.52	1/4	4,183.04	1/4	3,974.29	1/4	3,764.80	1/4	3,555.14	1/4	3,337.61	1/4	2,997.12
1/2		1/2		1/2		1/2	4,381.68	1/2	4,178.69	1/2	3,969.94	1/2	3,760.43	1/2	3,550.77	1/2	3,330.52	1/2	2,990.02
3/4		3/4		3/4		3/4	4,378.84	3/4	4,174.34	3/4	3,965.59	3/4	3,756.06	3/4	3,546.41	3/4	3,323.44	3/4	2,982.92
4		4		4		4	4,376.00	4	4,169.99	4	3,961.24	4	3,751.70	4	3,542.04	4	3,316.35	4	2,975.81
1/4		1/4		1/4		1/4	4,372.16	1/4	4,165.64	1/4	3,956.89	1/4	3,747.33	1/4	3,537.67	1/4	3,309.26	1/4	2,968.71
1/2		1/2		1/2		1/2	4,368.32	1/2	4,161.29	1/2	3,952.55	1/2	3,742.96	1/2	3,533.30	1/2	3,302.18	1/2	2,961.60
3/4		3/4		3/4		3/4	4,364.48	3/4	4,156.94	3/4	3,948.20	3/4	3,738.59	3/4	3,528.93	3/4	3,295.09	3/4	2,954.50
5		5		5		5	4,360.64	5	4,152.60	5	3,943.85	5	3,734.23	5	3,524.57	5	3,288.00	5	2,947.40
1/4		1/4		1/4		1/4	4,356.36	1/4	4,148.25	1/4	3,939.49	1/4	3,729.86	1/4	3,520.20	1/4	3,280.92	1/4	2,940.29
1/2		1/2		1/2		1/2	4,352.08	1/2	4,143.90	1/2	3,935.13	1/2	3,725.49	1/2	3,515.83	1/2	3,273.83	1/2	2,933.19
3/4		3/4		3/4		3/4	4,347.80	3/4	4,139.55	3/4	3,930.77	3/4	3,721.12	3/4	3,511.46	3/4	3,266.74	3/4	2,926.08
6		6		6		6	4,343.52	6	4,135.20	6	3,926.41	6	3,716.75	6	3,507.09	6	3,259.66	6	2,918.98
1/4		1/4		1/4		1/4	4,339.20	1/4	4,130.85	1/4	3,922.04	1/4	3,712.39	1/4	3,502.73	1/4	3,252.57	1/4	2,911.88
1/2		1/2		1/2		1/2	4,334.89	1/2	4,126.50	1/2	3,917.68	1/2	3,708.02	1/2	3,498.36	1/2	3,245.48	1/2	2,904.77
3/4		3/4		3/4		3/4	4,330.58	3/4	4,122.15	3/4	3,913.31	3/4	3,703.65	3/4	3,493.99	3/4	3,238.40	3/4	2,897.67
7		7		7		7	4,326.27	7	4,117.80	7	3,908.94	7	3,699.28	7	3,489.62	7	3,231.31	7	2,890.56
1/4		1/4		1/4		1/4	4,321.95	1/4	4,113.46	1/4	3,904.57	1/4	3,694.91	1/4	3,485.25	1/4	3,224.22	1/4	2,883.46
1/2		1/2		1/2		1/2	4,317.63	1/2	4,109.11	1/2	3,900.21	1/2	3,690.55	1/2	3,480.89	1/2	3,217.14	1/2	2,876.36
3/4		3/4		3/4		3/4	4,313.31	3/4	4,104.76	3/4	3,895.84	3/4	3,686.18	3/4	3,476.52	3/4	3,210.05	3/4	2,869.25
8		8		8		8	4,308.99	8	4,100.41	8	3,891.47	8	3,681.81	8	3,472.15	8	3,202.96	8	2,862.15
1/4		1/4		1/4		1/4	4,304.67	1/4	4,096.06	1/4	3,887.10	1/4	3,677.44	1/4	3,467.78	1/4	3,195.88	1/4	2,855.04
1/2		1/2		1/2		1/2	4,300.35	1/2	4,091.71	1/2	3,882.73	1/2	3,673.07	1/2	3,463.42	1/2	3,188.79	1/2	2,847.94
3/4		3/4		3/4		3/4	4,296.02	3/4	4,087.36	3/4	3,878.37	3/4	3,668.71	3/4	3,459.05	3/4	3,181.70	3/4	2,840.84
9		9		9		9	4,291.70	9	4,083.01	9	3,874.00	9	3,664.34	9	3,454.68	9	3,174.62	9	2,833.73
1/4		1/4		1/4		1/4	4,287.37	1/4	4,078.66	1/4	3,869.63	1/4	3,659.97	1/4	3,450.31	1/4	3,167.53	1/4	2,826.63
1/2		1/2		1/2		1/2	4,283.03	1/2	4,074.32	1/2	3,865.26	1/2	3,655.60	1/2	3,445.94	1/2	3,160.44	1/2	2,819.52
3/4		3/4		3/4		3/4	4,278.70	3/4	4,069.97	3/4	3,860.89	3/4	3,651.24	3/4	3,441.58	3/4	3,153.36	3/4	2,812.42
10		10		10		10	4,274.36	10	4,065.62	10	3,856.53	10	3,646.87	10	3,437.21	10	3,146.27	10	2,805.32
1/4		1/4		1/4		1/4	4,270.02	1/4	4,061.27	1/4	3,852.16	1/4	3,642.50	1/4	3,432.84	1/4	3,139.18	1/4	2,798.21
1/2		1/2		1/2		1/2	4,265.67	1/2	4,056.92	1/2	3,847.79	1/2	3,638.13	1/2	3,428.47	1/2	3,132.08	1/2	2,791.11
3/4		3/4		3/4		3/4	4,261.32	3/4	4,052.57	3/4	3,843.42	3/4	3,633.76	3/4	3,424.10	3/4	3,124.99	3/4	2,784.00
11		11		11	4,413.21	11	4,256.97	11	4,048.22	11	3,839.05	11	3,629.40	11	3,419.74	11	3,117.89	11	2,776.90
1/4		1/4		1/4	4,412.13	1/4	4,252.62	1/4	4,043.87	1/4	3,834.69	1/4	3,625.03	1/4	3,415.37	1/4	3,110.79	1/4	2,769.80
1/2		1/2		1/2	4,411.06	1/2	4,248.27	1/2	4,039.52	1/2	3,830.32	1/2	3,620.66	1/2	3,411.00	1/2	3,103.68	1/2	2,762.69
3/4		3/4		3/4	4,409.98	3/4	4,243.92	3/4	4,035.17	3/4	3,825.95	3/4	3,616.29	3/4	3,406.63	3/4	3,096.58	3/4	2,755.59

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "HSM 3312"

formerly the

# BARGE "FMT 3312"

**3 STBD**  
**ULLAGE TABLE**  
**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,748.48	0	2,406.92	0	2,065.06	0	1,723.20	0	1,381.34	0	1,039.59	0	698.12	0	356.27	0	23.52	0	
1/4	2,741.38	1/4	2,399.80	1/4	2,057.94	1/4	1,716.08	1/4	1,374.22	1/4	1,032.48	1/4	691.00	1/4	349.14	1/4	19.95	1/4	
1/2	2,734.28	1/2	2,392.68	1/2	2,050.82	1/2	1,708.96	1/2	1,367.10	1/2	1,025.37	1/2	683.87	1/2	342.02	1/2	16.39	1/2	
3/4	2,727.17	3/4	2,385.56	3/4	2,043.70	3/4	1,701.84	3/4	1,359.98	3/4	1,018.26	3/4	676.75	3/4	334.90	3/4	12.83	3/4	
1	2,720.07	1	2,378.44	1	2,036.58	1	1,694.71	1	1,352.85	1	1,011.16	1	669.63	1	327.78	1	9.27	1	
1/4	2,712.96	1/4	2,371.31	1/4	2,029.45	1/4	1,687.59	1/4	1,345.73	1/4	1,004.05	1/4	662.51	1/4	320.66	1/4	7.49	1/4	
1/2	2,705.86	1/2	2,364.19	1/2	2,022.33	1/2	1,680.47	1/2	1,338.61	1/2	996.94	1/2	655.39	1/2	313.54	1/2	5.71	1/2	
3/4	2,698.76	3/4	2,357.07	3/4	2,015.21	3/4	1,673.35	3/4	1,331.49	3/4	989.83	3/4	648.26	3/4	306.41	3/4	3.93	3/4	
2	2,691.65	2	2,349.95	2	2,008.09	2	1,666.23	2	1,324.37	2	982.72	2	641.14	2	299.29	2	2.15	2	
1/4	2,684.55	1/4	2,342.83	1/4	2,000.97	1/4	1,659.10	1/4	1,317.24	1/4	975.61	1/4	634.02	1/4	292.17	1/4		1/4	
1/2	2,677.44	1/2	2,335.70	1/2	1,993.84	1/2	1,651.98	1/2	1,310.12	1/2	968.51	1/2	626.90	1/2	285.05	1/2		1/2	
3/4	2,670.34	3/4	2,328.58	3/4	1,986.72	3/4	1,644.86	3/4	1,303.00	3/4	961.40	3/4	619.78	3/4	277.93	3/4		3/4	
3	2,663.24	3	2,321.46	3	1,979.60	3	1,637.74	3	1,295.88	3	954.29	3	612.66	3	270.80	3		3	
1/4	2,656.13	1/4	2,314.34	1/4	1,972.48	1/4	1,630.62	1/4	1,288.76	1/4	947.18	1/4	605.53	1/4	263.68	1/4		1/4	
1/2	2,649.03	1/2	2,307.22	1/2	1,965.35	1/2	1,623.49	1/2	1,281.63	1/2	940.07	1/2	598.41	1/2	256.56	1/2		1/2	
3/4	2,641.92	3/4	2,300.09	3/4	1,958.23	3/4	1,616.37	3/4	1,274.51	3/4	932.97	3/4	591.29	3/4	249.44	3/4		3/4	
4	2,634.82	4	2,292.97	4	1,951.11	4	1,609.25	4	1,267.39	4	925.86	4	584.17	4	242.32	4		4	
1/4	2,627.71	1/4	2,285.85	1/4	1,943.99	1/4	1,602.13	1/4	1,260.27	1/4	918.75	1/4	577.05	1/4	235.19	1/4		1/4	
1/2	2,620.59	1/2	2,278.73	1/2	1,936.87	1/2	1,595.01	1/2	1,253.14	1/2	911.64	1/2	569.92	1/2	228.07	1/2		1/2	
3/4	2,613.48	3/4	2,271.60	3/4	1,929.74	3/4	1,587.88	3/4	1,246.02	3/4	904.53	3/4	562.80	3/4	220.95	3/4		3/4	
5	2,606.37	5	2,264.48	5	1,922.62	5	1,580.76	5	1,238.90	5	897.43	5	555.68	5	213.83	5		5	
1/4	2,599.24	1/4	2,257.36	1/4	1,915.50	1/4	1,573.64	1/4	1,231.78	1/4	890.32	1/4	548.56	1/4	206.71	1/4		1/4	
1/2	2,592.12	1/2	2,250.24	1/2	1,908.38	1/2	1,566.52	1/2	1,224.66	1/2	883.21	1/2	541.44	1/2	199.58	1/2		1/2	
3/4	2,585.00	3/4	2,243.12	3/4	1,901.26	3/4	1,559.39	3/4	1,217.53	3/4	876.10	3/4	534.31	3/4	192.46	3/4		3/4	
6	2,577.87	6	2,235.99	6	1,894.13	6	1,552.27	6	1,210.41	6	869.00	6	527.19	6	185.34	6		6	
1/4	2,570.75	1/4	2,228.87	1/4	1,887.01	1/4	1,545.15	1/4	1,203.29	1/4	861.88	1/4	520.07	1/4	178.22	1/4		1/4	
1/2	2,563.63	1/2	2,221.75	1/2	1,879.89	1/2	1,538.03	1/2	1,196.17	1/2	854.77	1/2	512.95	1/2	171.10	1/2		1/2	
3/4	2,556.51	3/4	2,214.63	3/4	1,872.77	3/4	1,530.91	3/4	1,189.05	3/4	847.66	3/4	505.83	3/4	163.98	3/4		3/4	
7	2,549.38	7	2,207.51	7	1,865.65	7	1,523.78	7	1,181.92	7	840.55	7	498.70	7	156.85	7		7	
1/4	2,542.26	1/4	2,200.38	1/4	1,858.52	1/4	1,516.66	1/4	1,174.80	1/4	833.43	1/4	491.58	1/4	149.73	1/4		1/4	
1/2	2,535.14	1/2	2,193.26	1/2	1,851.40	1/2	1,509.54	1/2	1,167.68	1/2	826.31	1/2	484.46	1/2	142.61	1/2		1/2	
3/4	2,528.01	3/4	2,186.14	3/4	1,844.28	3/4	1,502.42	3/4	1,160.56	3/4	819.19	3/4	477.34	3/4	135.49	3/4		3/4	
8	2,520.89	8	2,179.02	8	1,837.16	8	1,495.30	8	1,153.44	8	812.07	8	470.22	8	128.37	8		8	
1/4	2,513.77	1/4	2,171.90	1/4	1,830.03	1/4	1,488.17	1/4	1,146.31	1/4	804.95	1/4	463.10	1/4	121.25	1/4		1/4	
1/2	2,506.64	1/2	2,164.77	1/2	1,822.91	1/2	1,481.05	1/2	1,139.19	1/2	797.82	1/2	455.97	1/2	114.14	1/2		1/2	
3/4	2,499.52	3/4	2,157.65	3/4	1,815.79	3/4	1,473.93	3/4	1,132.07	3/4	790.70	3/4	448.85	3/4	107.02	3/4		3/4	
9	2,492.39	9	2,150.53	9	1,808.67	9	1,466.81	9	1,124.95	9	783.58	9	441.73	9	99.90	9		9	
1/4	2,485.27	1/4	2,143.41	1/4	1,801.55	1/4	1,459.69	1/4	1,117.83	1/4	776.46	1/4	434.61	1/4	92.81	1/4		1/4	
1/2	2,478.15	1/2	2,136.29	1/2	1,794.42	1/2	1,452.56	1/2	1,110.71	1/2	769.34	1/2	427.49	1/2	85.71	1/2		1/2	
3/4	2,471.02	3/4	2,129.16	3/4	1,787.30	3/4	1,445.44	3/4	1,103.59	3/4	762.22	3/4	420.36	3/4	78.61	3/4		3/4	
10	2,463.90	10	2,122.04	10	1,780.18	10	1,438.32	10	1,096.47	10	755.09	10	413.24	10	71.51	10		10	
1/4	2,456.78	1/4	2,114.92	1/4	1,773.06	1/4	1,431.20	1/4	1,089.36	1/4	747.97	1/4	406.12	1/4	64.85	1/4		1/4	
1/2	2,449.66	1/2	2,107.80	1/2	1,765.94	1/2	1,424.07	1/2	1,082.25	1/2	740.85	1/2	399.00	1/2	58.19	1/2		1/2	
3/4	2,442.54	3/4	2,100.67	3/4	1,758.81	3/4	1,416.95	3/4	1,075.13	3/4	733.73	3/4	391.88	3/4	51.54	3/4		3/4	
11	2,435.41	11	2,093.55	11	1,751.69	11	1,409.83	11	1,068.02	11	726.61	11	384.75	11	44.88	11		11	
1/4	2,428.29	1/4	2,086.43	1/4	1,744.57	1/4	1,402.71	1/4	1,060.91	1/4	719.48	1/4	377.63	1/4	39.54	1/4		1/4	
1/2	2,421.17	1/2	2,079.31	1/2	1,737.45	1/2	1,395.59	1/2	1,053.80	1/2	712.36	1/2	370.51	1/2	34.20	1/2		1/2	
3/4	2,414.05	3/4	2,072.19	3/4	1,730.33	3/4	1,388.46	3/4	1,046.70	3/4	705.24	3/4	363.39	3/4	28.86	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/22/2020 CL  
CALCULATED: 07/23/2020 CL  
PRINTED: 07/23/2020 JS

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